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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 327.808 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-7

Perfect score: 1756

Sequence: 1 MNISSEPCILICMIFLCL.....FDRATVILHNSCLGAPLPEC 332

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:
1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB pep.*
5: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB pep.*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB pep.*
11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB pep.*
13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	352	20.0	910	US-10-101-464A-72	Sequence 72, App1
2	351	20.0	828	US-10-101-464A-934	Sequence 934, App
3	350	19.9	705	US-10-101-464A-894	Sequence 894, App
4	341	19.4	804	US-10-101-464A-890	Sequence 890, App
5	340	19.4	304	US-10-101-464A-717	Sequence 717, App
6	331.5	18.9	692	US-10-101-464A-897	Sequence 897, App
7	329	18.7	843	US-10-101-464A-893	Sequence 893, App
8	325.5	18.5	370	US-10-101-464A-944	Sequence 944, App
9	325	18.5	381	US-10-101-464A-660	Sequence 660, App
10	320.5	18.3	541	US-10-101-464A-913	Sequence 913, App
11	320	18.2	919	US-10-101-464A-642	Sequence 642, App
12	320	18.2	1133	US-10-101-464A-809	Sequence 809, App
13	319.5	18.2	1021	US-10-101-464A-954	Sequence 954, App
14	315.5	18.0	1196	US-09-823-394-2	Sequence 2, App1
15	314.5	17.9	1161	US-08-910-386A-20	Sequence 20, App1
16	314	17.9	645	US-10-101-464A-920	Sequence 920, App
17	314	17.9	974	US-10-101-464A-921	Sequence 921, App
18	311.5	17.7	1166	US-10-101-464A-900	Sequence 900, App
19	309	17.6	998	US-10-101-464A-931	Sequence 931, App

20	307.5	17.5	996	US-10-101-464A-889	Sequence 889, App
21	307.5	17.5	996	US-10-101-464A-933	Sequence 933, App
22	306	17.4	960	US-08-910-386A-18	Sequence 18, App1
23	302	17.2	864	US-10-101-464A-896	Sequence 896, App
24	301.5	17.2	998	US-10-101-464A-895	Sequence 895, App
25	301.5	17.2	998	US-10-101-464A-914	Sequence 914, App
26	300.5	17.1	996	US-08-910-386A-5	Sequence 5, App1
27	300.5	17.1	1025	US-08-910-386A-7	Sequence 7, App1
28	296.5	16.9	813	US-08-910-386A-2	Sequence 2, App1
29	296.5	16.9	813	US-08-910-386A-9	Sequence 9, App1
30	294.5	16.8	947	US-10-101-464A-73	Sequence 73, App1
31	293.5	16.7	990	US-10-101-464A-814	Sequence 814, App
32	290	16.5	685	US-10-101-464A-918	Sequence 918, App
33	289	16.5	660	US-10-101-464A-808	Sequence 808, App
34	289	16.5	984	US-10-101-464A-919	Sequence 919, App
35	287.5	16.4	633	US-10-101-464A-811	Sequence 811, App
36	285.5	16.3	281	US-10-101-464A-619	Sequence 619, App
37	285	16.2	854	US-09-754-853A-1103	Sequence 1103, App
38	284	16.2	854	US-09-754-853A-1105	Sequence 1105, App
39	283.5	16.1	547	US-10-101-464A-928	Sequence 928, App
40	283	16.1	854	US-09-754-853A-1098	Sequence 1098, App
41	283	16.1	854	US-09-754-853A-1101	Sequence 1101, App
42	283	16.1	854	US-09-754-853A-1107	Sequence 1107, App
43	283	16.1	854	US-09-754-853A-1109	Sequence 1109, App
44	282	16.1	383	US-10-101-464A-898	Sequence 898, App
45	282	16.1	854	US-09-754-853A-1111	Sequence 1111, App

ALIGNMENTS

RESULT 1
US-10-101-464A-72
Sequence 72, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions isolated from plant cells
TITLE OF INVENTION: and Their Use in the Modification of plant Cell Signaling
FILE REFERENCE: 11000.102022
CURRENT APPLICATION NUMBER: US/101/464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704.302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228.986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162.866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 72
LENGTH: 910
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-72
Query Match 20.0%; Score 352; DB 9; Length 910;
Best Local Similarity 31.2%; Pred. No. 2.2e+24;
Matches 110; Conservative 38; Mismatches 125; Indels 80; Gaps 10;
QY 30 NNNDQALLQITL---KNPITTSWSDDCGMDLVECDTNRRIISLIQDEALT 86
DB 34 NASDQHALAFSAITYPDSOSLATSWLPNVSFCMTGICRRRQRYISLVN-SSMGIO 92
QY 87 GOIPQVQDLPYQALWFRKLPNLFQ-KIPEISALIKOUKSLRSTSLSCGVLPFFPQL 145
DB 93 GRISPLANLSTLYLDLHN--NSFDCHIPLYQGLTFPLKMLRLSKNQLQGSIPPTLANC 150
QY 146 TKLTGLDSFNKLGLVIPPQSLTLPNLKALHLERNELTGEIPDIFGNFAGSPDIYLSHQ 205

Db	151	RSRLNLTLSFNNLTGNI	PFQCLTLPILICMSGINNLTGT	IPDCLGNISSLYTSLSGN	210
Qy	206	LTFEVPKTFAR	ADPTLRDPSGNRLREGDST	FLFGKRLKLEMD	247
Db	211	LOSSESELGRLSQ	LIVDLPGNHLTGCTPSSL	STCNLTJELDDGDQNVGHI	PSHLCTK 270
Qy	248	-----FSGNVLS	-----FNFSRVOEPPSL	TYLTDNNQISGSLSSSELAKL	---288
Db	271	KTTQLMYLRIGANQ	LSGVSPSLFCNCTKIQE	-----IALPVQLSGIVPMELGK	THL 323
Qy	289	-----	-----DLQTFNVSDNNL	GKGTPTG	GNLQR 312
Db	324	QRLLFGCGNYFISGN	TKRCPILALNSCGDLQ	IVDSNNFTGQVLPSTIGHISK	376

```

RESULT 2
US-10-101-464A-934
: Sequence 934, Application US/10101464A
: Publication No. US20030046728A1
: GENERAL INFORMATION:
: APPLICANT: Strabala, Timothy
: APPLICANT: Nieuwenhuizen, Nicolaas
: APPLICANT: Higgins, Colleen M.
: TITLE OF INVENTION: Compositions Isolated from Plant Cells
: TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
: FILE REFERENCE: 11000.1020C2
: CURRENT APPLICATION NUMBER: US/10/101,464A
: CURRENT FILING DATE: 2002-03-18
: PRIOR APPLICATION NUMBER: 09/704,302
: PRIOR FILING DATE: 2000-11-01
: PRIOR APPLICATION NUMBER: 09/228,986
: PRIOR FILING DATE: 1999-01-12
: PRIOR APPLICATION NUMBER: 60/162,866
: PRIOR FILING DATE: 1999-11-01
: PRIOR APPLICATION NUMBER: PCT/US00/00724
: PRIOR FILING DATE: 2000-01-11
: NUMBER OF SEQ ID NOS: 989
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 934
: LENGTH: 828
: TYPE: PRT
: ORGANISM: Pinus radiata
US-10-101-464A-934

```

Query Match	20.0%	Score 351;	DB 9;	Length 828;
Best Local Similarity	25.2%;	Pred. No. 2.4e-24;		
Matches 112;	Conservative 62;	Mismatches 123;	Indels 148;	Gaps 13;

[illegible]

QY	27	DLAHNIOISGISELAKL	-----DLQFVNSDNNLCKIP	305
		: : : : : :	: : : : :	
Db	391	DLNNNOIGSLPNNIGQLSSLSQSLVLSNNNTGSLSHNIGQLSPQLDLDSNNNTGSLP		450
		: : : : : :	: : : : :	
QY	306	TG---GNLQRPRTAYLHNSCLG	326	
		: : : : :	: : : :	
Db	451	LSISHIEDLQELD---LYNNNIFG	471	

```

RESULT 3
US-10-101-464A-894
; Sequence 894, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101.464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 894
; LENGTH: 705
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-894

```

Query Match	19.9%	Score 350;	DB 9;	length 705;
Best Local Similarity	21.7%;	Pred. NO. 2.4e-24;		
Matches 128; Conservative	55;	Mismatches 126;	Indels 282;	Gaps 15

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OY      2 SASORCINNNDKALLDITKAL--KNP-TIIDSVDSD--DCCGWDLVEDGETSNRIISLIT 79
Db      37 SSARREKEDKDVALLSFRNATIDPHGLSNNTANSNANISNMGICGRKOSRRVSIYL 96
OY      80 QDD-----EALTGQIPQVGDLEPYLQ-----100
Db      97 RFSHLEGLTSPVSGNISLHTEFVLTVNKLGTGRIPEEQQLKALQTLDDLRYNLSGSPGE 156
OY      101 -----ALW-----103
Db      157 LGLLOKLEMLHLHGNNLESIIPPSLGNCSSLTSLMAGFYSRRVLPFGSGIPAGSIPAEL 216
OY      104 -----FR-----KLP-----NLFGKIPREELAKDKSLPLSS 131
Db      217 GNCSHLSLSLYRFFLFTGVPDFIYIRLRLSELDELRFNNLTGKLPKAIANSHLSLDSLG 276
OY      132 TSLSGCVPLFFPOLTKLTCLDSFNKLGVIPOLSTLPNLKALHERNELTGEIPDFG 191
Db      277 NNFIGISPKAITNLEKRLQFLDLSYVLTGIIPIKGVGKLHSEHLELYESNNLTGSIPIYSIN 336
OY      192 NFAGSPDIYLSHNQLTGFEVPKTPFARADPIR-----LDMSG 226
Db      337 GLEFSIQVLDLSQNNLEGPISIGNCTSMKRFSAHSNKISGTLTSLANSTQURLDLRR 366
OY      227 NRLEQDI-----SFLGCP-----KKELEMLDPSGNVLS-----254
Db      397 NRLMELSPSYLAFYHDKILTLTLANNNLHGPIPGWITNLKKLHVLDLSNNRPFSGKPLSQSD 456
OY      255 -----254
Db      457 RLSGTTINESAPMDGVITITQGLEIYFTNFSEDTLFEENWFIDIKGVEYKLPVLPISITIF 516

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OY 255 -----FNFSRVQ---EPPSLT-----YLDLNHNQISGSL 282
Db 517 DLSSNSLNGQIPITSIGNSSRLNLNLSRNOLEGLPASTLSINSALEQDLKNNLSGEP 576
OY 283 SELAKL-DLOTFNVSDDNLGCKIPTGNGLOQFDRTRAYLHNSCLGAPPEC 332
Db 577 QELSQLHGLVFDVSSNNLGGPIGTQFTFNVTSFGQRNKLVCGLDTC 627

RESULT 4

US-10-101-464A-890
; Sequence 890, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from plant cells
; TITLE OF INVENTION: and their use in the modification of plant cell signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 890
; LENGTH: 804
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-890

Query Match 19.4%; Score 341; DB 9; Length 804;
Best Local Similarity 28.6%; Pred. No. 2e-23;

Matches 110; Conservative 52; Mismatches 107; Indels 116; Gaps 14;

OY 47 PTTTSSWSDDCCGMDVECDTSNRIT-----SLIODEALTGQIPQ 92
Db 357 PSITDT-----DLVYLDLSNNQLIGSLPRNIGQLSSLSQVLNINN-LTGSILHN 405
OY 93 VGDLPYLALWFRKLPNLFGRKIPBEISALKDKSLRSLSTSLSGPVLFFPOLTKLTCLD 152
Db 406 IGOUSDRLRLDLSN-NNLITGSLPLSISHIEDLOEIDLNNNIFGTIPMTI-SLTSLQILD 463
OY 153 LSFNKLGVIP-----POLS-----TLF-----NLKALLENELTGEIPD 188
Db 464 LSKNNLDSIPBELNSCEPLSFYHTNKLGLTLMPLFANCIEIOYDLRKNLTLGHLPH 523
OY 189 IFGNFA-----GSPD-----IYLSHNOLTGFPVKTFAR----- 216
Db 524 YLKSFSFSELLILFGYNNHGGIPFWVTNFTLYLDLSNNKFSGRMPLHFERLOGFVNS 583
OY 217 -----ADPRLDFSGNRLGDISLFLFGPKKLEMLDFSG- 250
Db 584 NNDSEKEITVHNKGEYTLPLYISSENTITLDSNNMLVGOIPPSIGITLDRMLRLNSQ 643
OY 251 --NVLSNFSRVQFPPSLTYLDLNHNQISGSLSELAKL-DLOTFNVSDDNLGCKIPTG 307
Db 644 LEGIIPASLSNIS-----TLBQLDLSKNNLSCHITPQELSKLXLAVLDVSSNSLGGPIPG 699
OY 308 GNLQFDRTRAYLHNSCLGAPPEC 332
Db 700 TQSTFATSFORNKLVCGLDSC 724

RESULT 5

US-10-101-464A-717
; Sequence 717, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from plant cells
; TITLE OF INVENTION: and their use in the modification of plant cell signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 717
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-717

Query Match 19.4%; Score 340; DB 9; Length 304;
Best Local Similarity 33.8%; Pred. No. 6.3e-24;
Matches 103; Conservative 32; Mismatches 110; Indels 60; Gaps 9;

OY 86 TGOIPPOVGDLPYLQALWFRKLPNLFGRKIPBEISALKDKSLRSLSTSLSGPVLFFPOL 145
Db 2 SGISIPASWGNLSLTDLYLNG-TGLAGSIPESIGLSLQDLSSNNLSGSLPVELSKL 60
OY 146 TKLTCLDISFNK-----LLGVYPPOLSTLPN-LKALHLER 179
Db 61 SDLONLDSFNNFPPVTPVVISNLGTLLQSLAGCGEGIIIPWLSMPNGLSTLDS 120
OY 180 NELTGEIPDIGNAGSPDIYLSHNOLTGFPVKTFARADPRL-IDFGNRLGDISFLFG 238
Db 121 NNITGITPTWGNNTGLYNLNSNNALITLTPAMSNLRNLGVLDLSNYLTGITAFA 180
OY 239 -----PKKRLMDLFGSN-----VLSFNSRVQFPPS-----LT 268
Db 181 MQSPFPGLLETVDLSNNKFTASIPSSVGNQNGQVLNSLSR-CAIPSTGLSLAQLO 239
OY 269 YLDLNHNQISGSLSELAKL-DLOTFNVSDDNLGCKIPTGNGLOQFDRTRAYLHNSCLGA 327
Db 240 TLELNENHLTGKIPNAFVNLTSLQLNVSHNSLSGMIPVGLLQKFPISYSGNRRLCGD 299
OY 328 PLPEC 332
Db 300 PLPAC 304

RESULT 6

US-10-101-464A-897
; Sequence 897, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from plant cells
; TITLE OF INVENTION: and their use in the modification of plant cell signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986

PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 897
 LENGTH: 692
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-897

Query Match 18.9%; Score 331.5; DB 9; Length 692;
 Best Local Similarity 33.8%; Pred. No. 1.3e-22;
 Matches 102; Conservative 51; Mismatches 110; Indels 19; Gaps 12;

QY 21 PNLASQRCNNNDK---QALLQI-KTALKNP--TITTSWVSDD--DCCGMDLVECDSTN 72
 DB 33 PSLFSSSIAGYHEKRDVEALLSFRKGIISDPHGLSD-WTANNSHNVCLMNGISCRPNTN 91
 QY 73 RIISLIILQDDEALTGOIPPOVDLPYLQALMFRKLPVLFGKIPPEISALKDKSLRLST 132
 DB 92 RAVISISLPYGR-LSGTISPIYIGNISLRLYLXSN-NDLSGRIPAEFGNLSLRLQDLSSN 149
 QY 133 SLGSPVLPFFPOLTKLTCLDLSPFNKLGVIIPOLSTPNLKALHLENELTGEIPDI 192
 DB 150 DLGRIPIAEFGNLSLRLQDLSSNDLSGRIPADFGNLSLRLQDLSSNDLSGRIPAEFGN 209
 QY 193 FASSPDLYLHNOQTGVPKTFARADPIRL-DPSGNLECDISFLFGPKRLEMLDFSGN 251
 DB 210 LSLRLQDLSSYNAFSGRIPIADIGNCALQMFHIOQNVLRSGIPAEFGRLVHLESLWLMN 269
 QY 252 VLSFNSRVQEPFSLTYLDPNHNQISGLSSE---LAKXLDLTFNVSNNLCGKIPTG- 307
 DB 270 ALSGRITSLGNC-TSLTDDIDNNNNISGPISEFSLVLEILWEN--DWGISGSIPTSI 326
 QY 308 GN 309
 DB 327 GN 328

RESULT 7

US-10-101-464A-893
 Sequence 893, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuizen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells
 FILE REFERENCE: 11000.1020C2
 CURRENT APPLICATION NUMBER: US/10/101.464A
 PRIOR FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 893
 LENGTH: 843
 TYPE: PRT
 ORGANISM: Pinus radiata
 FEATURE:
 NAME/KEY: VARIANT
 LOCATION: (1) (643)
 OTHER INFORMATION: Xaa = Any Amino Acid

US-10-101-464A-893

Query Match 18.7%; Score 329; DB 9; Length 843;
 Best Local Similarity 29.3%; Pred. No. 3e-22;
 Matches 96; Conservative 59; Mismatches 133; Indels 40; Gaps 10;

QY 10 ILICIMIFLCLPULSAS-----QRCNNNDKALLQIKTALKNPITD-- 51
 DB 4 LLLVMMFVCSVMGMGAMPTDGTSTVESVPFNGRNRHKKRDVEALLSFKESI---ISDEY 59
 QY 52 ---SWVSDD--DCCGMDLVECDSTNRIISLIQDDEALTGOIPPOVDLPYLQAL--- 102
 DB 60 GSLTWTANNSHNVCLMNGISCRPNTKRVYSISLPEC-WLNGTSLPYIGNLSLRLDLDS 118
 QY 103 WRKRLPNLFGKIPPEISALKDKSLRLST--LSGVPVLPFFPOLTKLTCLDLSPFNKLG 160
 DB 119 W---NALSGRIPIAEFGQKALRIIDLSSHLLHGYIPKELFNCRIQRIOLDSHNSFTG 174
 QY 161 VIPPOLSTPNLKALHLENELTGEIPDIIFGNFASPDLYLHNOQTGVPKTFARAD- 219
 DB 175 SIPTISGNALLQTNLNLAEQNLGSIPIAEFGRLVHLESLQLYSNTLSGSIPTSLANCTSL 234
 QY 220 IRLDFSGNRLLECDISFLFGPKRLEMLDFSGNLSFNSRVQEPFSLTYLDPNHNQISG 279
 DB 235 IKLEISDNNLSGPISEFSLVRLLETLDFDONSISGSIPTASISNCTSLQYLDISONSLSG 294
 QY 280 SLSEELAKL-DLQTFNVSNNLCGKIPT 306
 DB 295 PIPSEFSLVLSLELYFHDNSISGSIPT 322

RESULT 8

US-10-101-464A-944
 Sequence 944, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuizen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells
 FILE REFERENCE: 11000.1020C2
 CURRENT APPLICATION NUMBER: US/10/101.464A
 PRIOR FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 944
 LENGTH: 370
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-944

Query Match 18.5%; Score 325.5; DB 9; Length 370;
 Best Local Similarity 28.8%; Pred. No. 1.9e-22;
 Matches 97; Conservative 50; Mismatches 111; Indels 59; Gaps 9;

QY 31 NNDKQALLQIKTALK-NPTITDSWV--SDDDCGMDLVECDSTNRIISL----- 77
 DB 34 SDDGATLLAIKKSFRSDNVLYNMWIDSASDHCSMRGVTCDNVTFAYVALNLSHLNCGE 93
 QY 78 -----IIODDEALTGOIPPOVDLPYLQALMFRKLPVLFGKIPPEISALKDL 124
 DB 94 ISPIYIGNLKSLESIDLKGNLSGOIPIDEIDCGALKILDV-SLNYLVGDIPIFSISKQL 152
 QY 125 KSLRLSTSLGVPVLPFFPOLTKLTCLDLSPFNKLGVIIP----- 163

```
Db      153 EQLIKNNQWMPFISTLSQIPNLKMKMFADNQLSGEIPRLIYWEVLQYGLRNNPLVG 212
      164 ---POLSTLPNLKALHLERNELTGEIPDIFGNFAGSPDIYLSHNQLTGFVPTFARADPI 220
      213 TUSPMQCLTGLMFEDVGNLNLSCITPENIGCTSYAVLDSYNQLTGEIPNIFLOVA 272
Qy      221 RUDFSGNLEGDISTLFPKKRLEMLDPSGNVLSFNSRVOEFPPSLTYLD---LNHNQI 277
      273 TUSLQGNKLTGKIPREVICMLQALTYLVDLSNHLT---GTIPISIGLNTYTDKLYLSHNNL 329
Qy      278 SGLSSELAKL-DLQTFVSDNNLCGKIPTG-GNQR 312
      330 TGSIPPELGNNMTKLGVLQNDNLQTLGIPPELGNLQ 366
Db
RESULT 9
US-10-101-464A-660
; Sequence 660, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101.464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 660
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-660

Query Match      18.5%; Score 325; DB 9; Length 381;
Best Local Similarity 33.8%; Pred. No. 2,3e-22;
Matches 94; Conservative 37; Mismatches 119; Indels 28; Gaps 7;
Qy      64 LVECEETSRIISLIIODEALTGOIPPOVGDLPYLQALMPFKLPN-LFGKIPEEISALK 122
      73 LLEVLUSSNK-----LTGFIPDLICGKQLQIIL--LENFFGIPPEISLGNCE 119
Db      123 DKLSRLSTLSISGVPLFFPOLTKLCLDSFNKLVIPQSLTLPNLKALHLERNEL 182
      120 SLTRRMGNVNYNGSIPKGLVLPKLGMEVHDNVLSSGIPKSTVTSLSGLHSNNRL 179
Qy      183 TGEIPDIFGNFAGSPDIYLSHNQLTGFVPTFARADPI-RUDFSGNLEGDISTLFGPKK 241
      180 TGPLPDSIGKSNQIILLDGNQFTGSIPEELGKKEISKMDPSGNRSRSGAIPPEISYCK 239
Qy      242 RLEMLDPSGNVLSFNSRVOEFPPSLT-----YLDLHNQISGLSSELA-KLDLOTFN 294
      240 HLAETIDSRNLESGPIS-----PQITWRILNTYINISRNHLVSGIPREIAGMLSTLSD 293
Qy      295 VSDNNLCGKIPTGNTLQRFDRATVLAHNSCLCGAPLPEC 332
      294 FSYNNLSGLVGTGQFSYFNATSPAGNPELGGPYLGPC 331
Db
RESULT 10
US-10-101-464A-913
; Sequence 913, Application US/10101464A
```

```
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101.464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 913
; LENGTH: 541
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-913

Query Match      18.3%; Score 320.5; DB 9; Length 541;
Best Local Similarity 22.4%; Pred. No. 1e-21;
Matches 118; Conservative 67; Mismatches 136; Indels 205; Gaps 15;
Qy      6 SFCPLICIMFLCPLNLSASQRCNNNDKQALLQITALKNPITDSWSDDC--CGWD 63
      17 STIP-----CLVEFLCLUSNAESQIDQEOVLKLRQSRWDPSSLDHWAANSSSHCTWP 72
Db      64 LVECEETSRIISLI-----IODEALT----- 86
      73 EITQEGSISELNVNININYSIPEPICDKSLTKLDISYNNIPGGFTVLYNSKLYVL 132
Qy      87 -----GQIPPOVGDLPYLQA----- 101
Db      133 DLSQVYFEGPIPSDINRMANLQVLILAAANSFENVASVARLRRLIHLNOSYNGTTP 192
      102 -----LWFKLP--NLFGKIPEEIS----- 119
Qy      193 EEIFGLSNLEELSLGYNKDFVPSQLPQNTSLKKRFFFSMOTNLGYGIPETISOMEALE 252
      120 -----ALDKLSRLSTLSISGVPLFFPOLTKLCLDSFNKLV 161
Db      253 HUDGINPLTGEIPGSIPTALRNLSKLVYNTNVSGSIPQSV-SAANLSRIDLSFNNLTGN 311
      162 IPOLSTLPNLKALHLERNELTGEIPDIFGNFAGSPDIYLSHNQLTGFVPTFARADPI 221
      312 IPEDFGKLKLNLSCLSLQGNQSGIPGIGRLPALSDVRKSNKNSLGTIPDPFGKFSPL 371
Qy      222 -----LDPSGNRLLEGDISLFGPKRLE--MLD---FSGN 251
      372 REEVAFNSLTGALPEQLCHGGLTFGLAVMDNNLTGGEIPESLGNSTLSVAMLNNGFTGN 431
Db      252 V-----LSFN---FSRVOEFPPSLTYLDLHNQISGLSSELA-KLDLOTF 293
      432 VPGGLWMLRLNLTALILSGNGLTGELPEELSPNLTRIMSNNKFFGKIPSTVSSWKNLVF 491
Qy      294 NVSDNNLCGKIPT-----GNNLQRFDRATVLAHNSCLCGAPLPEC 331
      492 DANNNLSTGTITELTKLPFGSGAFASERALWESSDSHFVELLE 537
Db
RESULT 11
US-10-101-464A-642
; Sequence 642, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
```

```

; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/728,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 642
; LENGTH: 919
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-642

```

```

Query Match      18.2%; Score 320; DB 9; Length 919;
Best Local Similarity 28.5%; Pred. No. 2,4e-21;
Matches 99; Conservative 42; Mismatches 114; Indels 92; Gaps 9;

```

```

QY 64 LVEDETSNRILSLIIODDALTGQIPPOVGDPYLOAL--WFKRLPNLFGKIPPEISAL 121
DB 175 LSQSQKKKIDFSL-----NYLVGSIPAEIGMLENLQLAMFN---GLEGEIPPELGKC 226
QY 122 KDLKSRLSSTLSGVPYLPFPOLTKLTCUDLSFNKLGVIIPPOLSTLPMUKALHLERNE 181
DB 227 RNKKNLILNNHNLKGEIPTELFNCSNLEWISLTSELTGEVREVMULSLAVLOLGNNS 286
QY 182 LTGEIPDIFGNFAGSPDIYLSHNQLTGFVPR----- 212
DB 287 LSGQIPWELGNCSSLMWLDLSSNKLTEIPRLGRQLAGKAPAGIPSGNTLVFVRNVNT 346
QY 213 -----TFAR--ADPI-----RUDFGSNRLEGD 232
DB 347 CKGVGLERFAGIRPRLLOVPSLRTCNFAWYSGPILSKFTTYQVTEYLDLSDNQLRGK 406
QY 233 ISFLFGPKRLEMLDFSGNVLSFNSRVOEFPPLTYL-----DLNHNQISGLSELA 286
DB 407 IPEFGDMVALQYLELSYNQLS-----GEIPSSGLKLDGVFEASHNRLOQOIPDSFS 460
QY 287 KLD-LQTFNVSDNNLCGKIPTGNGLQRFDRTRAYLHNSCLCGAPLPEC 332
DB 461 NLSFLVQIDLSYNDLTGQIPQRGQLSTLPASQYEHNPGLCGVPLPEC 507

```

```

RESULT 12
US-10-101-464A-809
; Sequence 809, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11

```

```

; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 809
; LENGTH: 1133
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-809

```

```

Query Match      18.2%; Score 320; DB 9; Length 1133;
Best Local Similarity 28.5%; Pred. No. 3,2e-21;
Matches 99; Conservative 42; Mismatches 114; Indels 92; Gaps 9;

```

```

QY 64 LVEDETSNRILSLIIODDALTGQIPPOVGDPYLOAL--WFKRLPNLFGKIPPEISAL 121
DB 389 LSQSQKKKIDFSL-----NYLVGSIPAEIGMLENLQLAMFN---GLEGEIPPELGKC 440
QY 122 KDLKSRLSSTLSGVPYLPFPOLTKLTCUDLSFNKLGVIIPPOLSTLPMUKALHLERNE 181
DB 441 RNKKNLILNNHNLKGEIPTELFNCSNLEWISLTSELTGEVREVMULSLAVLOLGNNS 500
QY 182 LTGEIPDIFGNFAGSPDIYLSHNQLTGFVPR----- 212
DB 501 LSGQIPWELGNCSSLMWLDLSSNKLTEIPRLGRQLAGKAPAGIPSGNTLVFVRNVNT 560
QY 213 -----TFAR--ADPI-----RUDFGSNRLEGD 232
DB 561 CKGVGLERFAGIRPRLLOVPSLRTCNFAWYSGPILSKFTTYQVTEYLDLSDNQLRGK 620
QY 233 ISFLFGPKRLEMLDFSGNVLSFNSRVOEFPPLTYL-----DLNHNQISGLSELA 286
DB 621 IPEFGDMVALQYLELSYNQLS-----GEIPSSGLKLDGVFEASHNRLOQOIPDSFS 674
QY 287 KLD-LQTFNVSDNNLCGKIPTGNGLQRFDRTRAYLHNSCLCGAPLPEC 332
DB 675 NLSFLVQIDLSYNDLTGQIPQRGQLSTLPASQYEHNPGLCGVPLPEC 721

```

```

RESULT 13
US-10-101-464A-954
; Sequence 954, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 954
; LENGTH: 1021
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-954

```

```

Query Match      18.2%; Score 319.5; DB 9; Length 1021;
Best Local Similarity 25.6%; Pred. No. 3,1e-21;
Matches 100; Conservative 40; Mismatches 111; Indels 139; Gaps 9;

```

```

QY 75 ISLIIODEA---LTGQIPPOVGDPYLOALWFRKLPNLFGKIPPEISALKDLKSLRLSS 131
DB 245 LSQLVRLDAASGSGEIPPEIAKQNDTL--FLQVNFAGSLPPEIAIYLSKSLSDSN 303

```

QY 132 TSLGVPVLPFPOLTKTCTL----- 151
Db 304 NMFACEIPESFSQKLNLTLLHFRNKNGESPEFIADLPBQVLQWMENNFTGSIPOGLG 363
QY 152 -----DLFSNKLGVIPOLSS----- 167
Db 364 KNGHLQIVDLSNKLTKTGLPBDLCGNOLQILALSNYLLGPPIESJGCKSLERIRMG 423
QY 168 -----TLPNLKAH-----LERNELTGEIPDI 190
Db 424 NYLNGSIPRGFLPELNVQVEFQONLVGEPVSDSLALTKGQITLSNNLGSILPPTI 483
QY 191 GNFGSPPIYVSHNQLTGFVKTARADPT-RDPFGNRLBGDISFLFGPKRLEMLDFS 249
Db 484 GNFGSVQKLLDGNNSGQIPPEIGRLOQAKIDFSSNRYSGPAPQISQCKLLTFVDLS 543
QY 250 GNVLSFNFSSRVQFPPLT-----YLDLNNQSGSLSSSLAKL-DLOTFNVSDDNNLCG 302
Db 544 GNELS-----GEIPNEITGKRIILNLYNLSSNNLSSGISPPSISTMOGLTSVDFSYNNLSG 597
QY 303 KIPTGNLQRFDRDTAYLHNSCLCGAPLPEC 332
Db 598 LVPGTQGFYSYFNVTSLFGNPELQGPVLCGC 627

RESULT 14

US-09-823-394-2
/ Sequence 2, Application US/09823394
/ Publication No. US20030041344A1
/ GENERAL INFORMATION:
/ APPLICANT: Chory, Joanne
/ APPLICANT: Janning, Li
/ APPLICANT: Salk Institute for Biological Studies
/ TITLE OF INVENTION: RECEPTOR KINASE, BIN 1
/ FILE REFERENCE: SALKINS.013CPI
/ CURRENT APPLICATION NUMBER: US/09/823,394
/ CURRENT FILING DATE: 2001-03-30
/ PRIOR APPLICATION NUMBER: 08/881,706
/ PRIOR FILING DATE: 1997-06-24
/ NUMBER OF SEQ ID NOS: 2
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 1196
/ TYPE: PRT
/ ORGANISM: Arabidopsis
US-09-823-394-2

Query Match 18.0%; Score 315.5; DB 9; Length 1196;
Best Local Similarity 28.3%; Pred. No. 9, 2e-21;

Matches 112; Conservative 48; Mismatches 143; Indels 93; Gaps 13;

QY 20 LPNLAS-----ORCANNKQALLQIKTALKNP--ITTSWVSDDCCG--DLVECD 70
Db 385 LTNLSASLITLDDLSNNNSGPII--PNCQNPKNLQELVYQNNNGFTKIPPTLSNCS 441
QY 71 SNRIISLIIDDEALTGQIPPOVGDLPYLO--ALWFRKLPLNFGIPEISALDKSLR 128
Db 442 ---LVSLHLSTN-YLSTGTPSSLSGLKRDULKMLNLE--GEIPOELMYVKTLETLI 494
QY 129 LSSSTLSGVPVLPFPOLTKTCLDLSFNKLGVIPPOLSTLPNLKALHNERNEGTGEIPD 188
Db 495 LDENDLTGEISGLSNCNTLNMWISNNRLTGEIPKWIIGRLNLAIKLSNNSSGNIPD 554
QY 189 IFGNFAGSPDIYLSHNQLTGFVPKT-FARADPIRDF-----SGN 227
Db 555 ELGGCRSLIWDLNTLNPNGTTPAMFQSGKIANFACGRYYIKNQDKKKECHGAGN 614
QY 228 RLE-----GDISFLFGPKRLEMLDFSGNVLSFNSRVQ 261
Db 615 LLEFGQIRSEQLNLRSTRNPNINITSRAVYGHGHTSPTFDNNNGSMFLDMSYNNLSGIYRKEI 674
QY 262 EFPSPSLYLDLNNQISGLSSELA-----KLD-----LOTNVS 296

Db 675 GSWPYLFLNKGHNDIGSSIDVEVDLRGLNILLSSNKLDCGRIPQAMSLTMTLEIDS 734
QY 297 DNNLCGKIPTGNIQRFDRDTAYLHNSCLCGAPLPEC 332
Db 735 NNNLSGPIPEWGQFETFPAPKFLNPPGLCGYPLPRC 770

RESULT 15

US-08-910-386A-20
/ Sequence 20, Application US/08910386A
/ Patent No. US20020092041A1
/ GENERAL INFORMATION:
/ APPLICANT: Ronald, Pamela C.
/ APPLICANT: Wang, Guo-Yuang
/ APPLICANT: Song, Wen-Yuang
/ APPLICANT: Huibert, Scot
/ APPLICANT: Richier, Todd
/ TITLE OF INVENTION: Procedures and Materials for Confering
/ TITLE OF INVENTION: Disease Resistance in Plants
/ NUMBER OF SEQUENCES: 53
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Townsend and Townsend and Crew LLP
/ STREET: Two Embarcadero Center, Eighth Floor
/ CITY: San Francisco
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94111-3834
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/910,386A
/ FILING DATE: 13-AUG-1997
/ CLASSIFICATION:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Bastian, Kevin L.
/ REGISTRATION NUMBER: 34,774
/ REFERENCE/DOCKET NUMBER: 023070-058950US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (415) 576-0200
/ TELEFAX: (415) 576-0300
/ INFORMATION FOR SEQ ID NO: 20:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1161 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
US-08-910-386A-20

Query Match 17.9%; Score 314.5; DB 8; Length 1161;
Best Local Similarity 30.3%; Pred. No. 1, 1e-20;

Matches 107; Conservative 52; Mismatches 125; Indels 69; Gaps 14;

QY 11 LCICMFLCLPNLASORCANNKQALLQIKTALKNP-ITDSVVS--DDCCGDDVECD 68
Db 73 LILCVFPL-----VHGVALSSDSKSALELKASFSDSGVISSNSKNNHCHSGFGVSCD 128
QY 69 ETSNRIISLI-----ODDEALTGQIPPOVGDLPYLO 100
Db 129 SDS-RVALNITGNGLSKAKIAQFPLVGFGITRVCAANSVKLVGKVPALASKLELR 187
QY 101 ALWFRKLPL-NLFGKIPEISALDKSLRLSTLSGVPVLPFPOLTKTCLDLSFNKL 158
Db 188 VL---SLPNEHLRGDPLGIWMDKLEVLQGNLITGSLPFEFGKLRKLRVNLGFMQI 244
QY 159 LGVIPOLSTLPNLKALHNERNEGTGEIPDIFGNFAGSPDIYLSHNQLTGFVKTARARA- 217
Db 245 VQAIPTSLNSCLALQIFNLAGNRVNGTTPAFIGFEDLAGIYLSFNELSGSIPEGIRGC 304
QY 218 DPRR-LDFSGNRLBGDISFLFGPKRLEMLDFSGNVLS-----FNFSRVQFPPLSLYLDL 272

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 61.202 Seconds
(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-7

Perfect score: 1756
Sequence: 1 MNIESSFCPIICIMIFLCL.....FDRTAYLHNSCLGAPLPEC 332

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/6CTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfilest.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	881.5	50.2	330	1 US-08-238-163-2	Sequence 2, Appli
2	844	48.1	327	1 US-08-238-163-4	Sequence 4, Appli
3	622	35.4	342	1 US-08-244-646-15	Sequence 15, Appli
4	622	35.4	342	1 US-08-592-936B-21	Sequence 21, Appli
5	622	35.4	342	2 US-09-111-573-21	Sequence 21, Appli
6	464.5	26.5	227	1 US-08-244-646-17	Sequence 17, Appli
7	352	20.0	910	4 US-09-228-986-72	Sequence 72, Appli
8	322.5	18.4	968	4 US-09-180-439-4	Sequence 4, Appli
9	320.5	18.3	968	4 US-09-180-439-3	Sequence 3, Appli
10	319.5	18.2	1016	4 US-09-180-439-8	Sequence 8, Appli
11	315.5	18.0	1196	4 US-08-881-706-2	Sequence 2, Appli
12	315	17.9	1112	4 US-09-353-585-2	Sequence 2, Appli
13	315	17.9	1112	4 US-09-353-585-3	Sequence 3, Appli
14	311.5	17.7	999	2 US-08-473-553A-5	Sequence 5, Appli
15	300.5	17.1	799	4 US-09-180-439-6	Sequence 6, Appli
16	300.5	17.1	1012	2 US-08-475-891A-4	Sequence 4, Appli
17	300.5	17.1	1025	2 US-08-567-375-4	Sequence 4, Appli
18	300.5	17.1	1025	2 US-08-587-680A-4	Sequence 4, Appli
19	294.5	16.8	947	4 US-09-228-986-73	Sequence 73, Appli
20	283	15.9	863	4 US-08-666-271-2	Sequence 2, Appli
21	278.5	15.9	806	4 US-08-945-983-2	Sequence 2, Appli
22	273	15.5	980	2 US-08-473-553A-6	Sequence 6, Appli
23	273	15.5	985	2 US-08-473-553A-2	Sequence 2, Appli
24	268	15.3	968	4 US-09-228-986-76	Sequence 76, Appli
25	264	15.0	523	4 US-08-473-553A-3	Sequence 3, Appli
26	260.5	14.8	690	4 US-09-228-986-69	Sequence 69, Appli
27	260.5	14.8	711	4 US-09-228-986-79	Sequence 79, Appli

28	247	14.1	659	4 US-09-228-986-75	Sequence 75, Appli
29	241	13.7	655	4 US-09-228-986-70	Sequence 70, Appli
30	235	13.4	666	4 US-09-228-986-68	Sequence 68, Appli
31	231	13.2	638	4 US-09-228-986-74	Sequence 74, Appli
32	226.5	12.9	1023	2 US-08-475-891A-2	Sequence 2, Appli
33	226.5	12.9	1023	2 US-08-567-375-2	Sequence 2, Appli
34	226.5	12.9	1023	2 US-08-587-680A-2	Sequence 2, Appli
35	225.5	12.8	707	4 US-09-228-986-80	Sequence 80, Appli
36	206.5	11.8	198	4 US-09-228-986-93	Sequence 93, Appli
37	204.5	11.6	630	4 US-09-228-986-71	Sequence 71, Appli
38	188	10.7	268	4 US-09-353-585-6	Sequence 105, App
39	174.5	9.9	247	4 US-09-228-986-105	Sequence 105, App
40	172	9.8	301	4 US-09-353-585-5	Sequence 5, Appli
41	172	9.8	544	2 US-08-567-680A-25	Sequence 25, Appli
42	169.5	9.7	151	4 US-09-228-986-95	Sequence 95, Appli
43	167	9.5	154	4 US-09-228-986-89	Sequence 89, Appli
44	155	8.8	277	2 US-08-567-375-16	Sequence 16, Appli
45	154.5	8.8	375	1 US-08-303-238-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-238-163-2
Sequence 2, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: FOWELL, Ann
TITLE OF INVENTION: STORZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend Kourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238,163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307E-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 330 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-2
Query Match 50.2%; Score 881.5; DB 1; Length 330;
Best Local Similarity 54.7%; Pred. No. 1,76-87;
Matches 181; Conservative 41; Mismatches 106; Indels 3; Gaps 3;
CY 3 IESEFCPIICIMIFLCLPNUSASQRCNNNDKALLQIKTKAKKPTTDSWVSDDCCGW 62
DB 1 MELKSTFLSTLFLSSVLPALSDLCNPDDKVVLLQIKKAFQDPVYLASWKSPTDCDW 60

QY 63 DLVECDTSNRRIISLIQDDEALTGOIPPOVGDDLPYLQALMFRKLPNLFCKIPEEISALK 122
DB 61 YCVTCDSTNRINSLSLIFAGQ-VSGQIPALVGDLPYLETLEFHKOPNLGPIQPIAKLK 119
QY 123 DKSLRSLSTSGPPLVFFPQUTKUCDLSFNKLGVIIPQISTPLPKALHIERNEL 182
DB 120 GLKSLRLMTNLSGVPDLSQLKTLFDLSPNNLTGALPSSLSLPLGLALRDRNKL 179
QY 183 TGEIPDIFGNFAGS-PDIYLSHNOQTGFVPKTFARADPIRLDFSGNRLGEGDISFLFGPKK 241
DB 180 TGHIPISFCQPIGNVDPDLTSHNOISGNITPSFAQMDFTSIDLSNKKLEGDASVIFGLNK 239
QY 242 RLEMDFSGNVLSFNFSGVOEPPSLTYLDLNHNOISGSLSESLAKDLQTFNVSNNLNC 301
DB 240 TQIYDLNLSNLLFNLKSV-EFPTSLTSVDINHNNKIYGSIPVEFTQNLNFGPLNVSYNRLC 298
QY 302 GKIPFGNLFQFDRFAYLHNSCLCGAPLPEC 332
DB 299 GOIPVGGKLSQSFDEYSEFHNRLCGAPLPEC 329

RESULT 2

US-08-238-163-4
Sequence 4, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STOTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend Kourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238,163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307F-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-4

Query Match 48.1%; Score 844; DB 1; Length 327;
Best Local Similarity 52.8%; Pred. No. 2,1e-83;
Matches 171; Conservative 46; Mismatches 103; Indels 4; Gaps 3;
QY 11 LCICNIFLCPLNLSAQRCNNNDKQALLQITALKNPITTSWVSDDCGMDLVECDT 70
DB 5 LLLVVFILCFASPSISVRCNPKDKKVLQIIKKDLGNPVLASWDRNTCCVWYVIKCRK 64

QY 71 SNRIISLIQDDEALTGOIPPOVGDDLPYLQALMFRKLPNLFCKIPEEISALKDLKSLRLS 130
DB 65 TNRIALTVFOAN-ISGQIPAAVGDLPYLETLEFHHVITNLGITIPALAKLTNKMRLS 123
QY 131 STLSGPPVLPFFPQUTKUCDLSFNKLGVIIPQISTPLPKALHIERNELTGEIPDF 190
DB 124 FTNLGPIPEFLSQLKTLLELNYNOFTGIPSSLSQPLMLMYLDRNKLGTTPESF 183
QY 191 GNFGS--PDIYLSHNOQTGFVPKTFARADPIRLDFSGNRLGEGDISFLFGPKRLEMULD 248
DB 184 GRFGPNIPDLYLSHNSLTGHVPASLGDNLNSTLDFSRNKKLEGDSVFLFGKNKTSOVIDL 243
QY 249 SGNVLSFNFSGVOEPPSLTYLDLNHNOISGSLSESLAKDLQTFNVSNNLCKIPTGG 308
DB 244 SRNLFEFDISK-SEFASLSLSDLNHNRIFGSLPGLKDVLPQFFNVSYNRLCGQIPGG 302
QY 309 NLQRFDRAYLHNSCLCGAPLPEC 332
DB 303 TLOSPDIYSYLNKCLCGSPLPKC 326

RESULT 3

US-08-244-646-15
Sequence 15, Application US/08244646
Patent No. 5744592
GENERAL INFORMATION:
APPLICANT: Cervone, Felice
APPLICANT: De Lorenzo, Giulia
APPLICANT: Salvi, Giovanni
APPLICANT: Albersheim, Peter
APPLICANT: Darvill, Alan
APPLICANT: Bergmann, Carl
TITLE OF INVENTION: Nucleotide Sequences Coding An
TITLE OF INVENTION: Endopolygalacturonase Inhibitor
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESS: Sally A. Sullivan
STREET: 5370 Manhattan Circle Suite 201
CITY: Boulder
STATE: CO
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,646
FILING DATE: 06-JUN-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 91A 000915
FILING DATE: 06-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/IT/00158
FILING DATE: 04-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Sullivan, Sally A.
REGISTRATION NUMBER: 32,064
REFERENCE/DOCKET NUMBER: 19-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303)499-8089
TELEFAX: (303)499-8089
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-244-646-15

Query Match 35.4%; Score 622; DB 1; Length 342;

Best Local Similarity 41.0%; Pred. No. 3.1e-59;
Matches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7;

QY 2 NIESSFCPIICIMFLCLPMLASQRCNNNDKQALLQIKALKNPTTDSWSDCCG 61
Db 5 NIPVTSSSLIILVILVSLRTALSELCPQDKQALLQIKDLGNPFLYSWMLPTTDCN 64
QY 62 -WDVCECDTSN--RIISLIIDDEALTQO-----IPQVGDLPYLQALMFRKLPNL 110
Db 65 RTWGLVCLDTDTQYRVNML-----DLSGHNLKRPYIPSSLANPLYNFLVIGGINL 118
QY 111 FGKIPPEISALKDKSLRSLSTLSGVPPLFFPQTLTKLTDLSFNKLGLVIPPQSLTP 170
Db 119 VGPPIPAIAKLTQHLHYITHVNSGAIIPDLISQIKTLVTLDFSYNALSGTLPPSISLP 178
QY 171 NLKALHLENNELTGEIPDIFGNFAG-SPDIYLSHNOITGVPTFARADPIRLDFSGNRL 229
Db 179 NLGGITFDGNRISGAIPLDSYGSFKLFTAMTISRNLTKGKIPTTFANLNAFVDSLNNML 238
QY 230 EGDISFLFGPKRLEMLDFSGNVLSEFNSRVQEPPEPLTYLDLNHNOISGSLSELAKLD 289
Db 239 EGDASVLFSGDKNTKKIHLAKNSLAFDLGKV-GLSKNLGLDLRNNRIYGTLPQGLTOLK 297
QY 290 -LOTFNVSNNLCKGKIPTGNNLQRFDRITAYLHNSCLCGAPLPEC 332
Db 298 FLOSINVSFNNLCGEIPOGGNLKRFVSVYANNKCLCGSFLPSC 341

RESULT 4

US-08-592-936B-21

Sequence 21, Application US/08592936B

Patent No. 5783393

GENERAL INFORMATION:

APPLICANT: Kelloog, Jill A.

APPLICANT: Bestwick, Richard K.

TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: Dehlinger & Associates

STREET: 350 Cambridge Avenue, Suite 250

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94306

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM PC compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/592.936B

FILING DATE: 29-JAN-1996

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Evans, Susan T.

REGISTRATION NUMBER: 38,443

REFERENCE/DOCKET NUMBER: 4257-0012

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 324-0880

TELEFAX: (650) 324-0960

INFORMATION FOR SEQ ID NO: 21:

LENGTH: 342 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Predicted amino acid coding sequence

US-08-592-936B-21

Query Match 35.4%; Score 622; DB 1; Length 342;
Best Local Similarity 41.0%; Pred. No. 3.1e-59;
Matches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7;

QY 2 NIESSFCPIICIMFLCLPMLASQRCNNNDKQALLQIKALKNPTTDSWSDCCG 61
Db 5 NIPVTSSSLIILVILVSLRTALSELCPQDKQALLQIKDLGNPFLYSWMLPTTDCN 64
QY 62 -WDVCECDTSN--RIISLIIDDEALTQO-----IPQVGDLPYLQALMFRKLPNL 110
Db 65 RTWGLVCLDTDTQYRVNML-----DLSGHNLKRPYIPSSLANPLYNFLVIGGINL 118
QY 111 FGKIPPEISALKDKSLRSLSTLSGVPPLFFPQTLTKLTDLSFNKLGLVIPPQSLTP 170
Db 119 VGPPIPAIAKLTQHLHYITHVNSGAIIPDLISQIKTLVTLDFSYNALSGTLPPSISLP 178
QY 171 NLKALHLENNELTGEIPDIFGNFAG-SPDIYLSHNOITGVPTFARADPIRLDFSGNRL 229
Db 179 NLGGITFDGNRISGAIPLDSYGSFKLFTAMTISRNLTKGKIPTTFANLNAFVDSLNNML 238
QY 230 EGDISFLFGPKRLEMLDFSGNVLSEFNSRVQEPPEPLTYLDLNHNOISGSLSELAKLD 289
Db 239 EGDASVLFSGDKNTKKIHLAKNSLAFDLGKV-GLSKNLGLDLRNNRIYGTLPQGLTOLK 297
QY 290 -LOTFNVSNNLCKGKIPTGNNLQRFDRITAYLHNSCLCGAPLPEC 332
Db 298 FLOSINVSFNNLCGEIPOGGNLKRFVSVYANNKCLCGSFLPSC 341

RESULT 5

US-09-111-573-21

Sequence 21, Application US/09111573

Patent No. 5929302

GENERAL INFORMATION:

APPLICANT: Kelloog, Jill A.

APPLICANT: Bestwick, Richard K.

TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: Dehlinger & Associates

STREET: 350 Cambridge Avenue, Suite 250

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94306

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM PC compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/111,573

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/592,936

FILING DATE: 29-JAN-1996

ATTORNEY/AGENT INFORMATION:

NAME: Evans, Susan T.

REGISTRATION NUMBER: 38,443

REFERENCE/DOCKET NUMBER: 4257-0012

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 324-0880

TELEFAX: (650) 324-0960

INFORMATION FOR SEQ ID NO: 21:

LENGTH: 342 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: predicted amino acid coding sequence
INDIVIDUAL ISOLATE: of SEQ ID NO:20
US-09-111-573-21

Query Match 35.4%; Score 622; DB 2; Length 342;
Best Local Similarity 41.0%; Pred. No. 3,1e-59;
Matches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7;

2 NISSFFPILCTICMIFLCPLNLSAQRCCNNNDKALLQITALKNPITTSWSDCCG 61
5 NIPVTMSSSIILVILVLSLRTALSELCPDQKALLQIKDLNPNPTLSLWPTTDCCN 64
62 --WDLVCDERSN--RIISLIIDDEALTGQ-----IPQVGDLLYLQALMRKLPNL 110
65 RTWAGVLCDDTDTQYRVNNL-----DLSGHNLKPKYPIBSLNLPLYNLFYIGGINL 118
111 FGKIPPEISALKDKSLRLSTSLSGVPLPFPQTLTKLCLDLSFNKLGVIPQSLTP 170
119 VGPIPAIAKLTQAHYLYITHTVNSGAIIPDLQIKTLVLDLDFSNALSGTLPPSISLP 178
171 NLKALHLERNELTGEIPDIFGNFAG-SPDIYLSHNQLTGFVPKTFARADPIRLDFSGNRL 229
179 NLGGITFDGMRISGAIIPDSYGSFKLFTAMTISRNLTKIPPTFANLNLAFVDSLNNML 238
230 EGDISFLFGPKRLKLEMLDFSGNVLSPNFSRVQEPFPPSLTYLDLHNQISGLSELAKLD 289
239 EGDASVLFSGDKNTKTHLAKNSLAFDLGV-GLSKNLNGLDLRNNRIYGTLPQGLTQK 297
290 -LQTFNVSNNLCCGKIPTGNGLQRFDRAYLHNSCLCGAPLPEC 332
298 FLOGSLNVSFNNLCGEIPQGNLKRFDVSSYANNKCLCGSPLPSC 341

RESULT 6
US-08-244-646-17
Sequence 17, Application US/08244646
Patent No. 5744692
GENERAL INFORMATION:
APPLICANT: Cervone, Felice
APPLICANT: De Lorenzo, Giulia
APPLICANT: Salvi, Giovanni
APPLICANT: Albersheim, Peter
APPLICANT: Darvill, Alan
APPLICANT: Bergmann, Carl
TITLE OF INVENTION: Nucleotide Sequences Coding An
TITLE OF INVENTION: Endopolygalacturonase Inhibitor
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sally A. Sullivan
STREET: 5370 Mannheim Circle Suite 201
CITY: Boulder
STATE: CO
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/244,646
FILING DATE: 06-JUN-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 91A 000915
FILING DATE: 06-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/IT/00158
FILING DATE: 04-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Sullivan, Sally A.
REGISTRATION NUMBER: 32,064
REFERENCE/DOCKET NUMBER: 19-94

TELECOMMUNICATION INFORMATION:
TELEPHONE: (303)499-8080
TELEFAX: (303)499-8089
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 227 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-244-646-17

Query Match 26.5%; Score 464.5; DB 1; Length 227;
Best Local Similarity 43.4%; Pred. No. 2.2e-42;
Matches 98; Conservative 41; Mismatches 84; Indels 3; Gaps 3;

109 NLFGKIPPEISALKDKSLRLSTSLSGVPLPFPQTLTKLCLDLSFNKLGVIPQSLT 168
2 NLVGPIPAIAKLTQAHYLYITHTVNSGAIIPDLQIKTLVLDLDFSNALSGTLPPSIS 61
169 LPLKALHLERNELTGEIPDIFGNFAG-SPDIYLSHNQLTGFVPKTFARADPIRLDFSGN 227
62 LPLVGITFDGMRISGAIIPDSYGSFKLFTMTISRNLTKIPPTFANLNLAFVDSLNN 121
228 RLEGDISFLFGPKRLKLEMLDFSGNVLSPNFSRVQEPFPPSLTYLDLHNQISGLSELAK 287
122 MLOGDASVLFSGDKNTQKTHLAKNSLAFDLGV-GLSKNLNGLDLRNNRIYGTLPQGLTQ 180
288 LD-LQTFNVSNNLCCGKIPTGNGLQRFDRAYLHNSCLCGAPLPEC 332
181 LKFLHSLNVSFNNLCGEIPQGNLQTFHVSAYANNKCLCGSPLPAC 226

RESULT 7
US-09-228-986-72
Sequence 72, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Neuenhuizen, Niels
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228,986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 72
LENGTH: 910
TYPE: PRT
ORGANISM: Pinus radiata
US-09-228-986-72

Query Match 20.0%; Score 352; DB 4; Length 910;
Best Local Similarity 31.2%; Pred. No. 3.3e-29;
Matches 110; Conservative 38; Mismatches 125; Indels 80; Gaps 10;

30 NNNDKALLQITLAL--KNPTTDSWSDDDCCGDLVECCETSNRIISLIIDDEALT 86
34 NASDQHALAFKSAITYDPSOSLATSMLPNVSFCOWTGIICRRRORRVISLNV-SSMGLQ 92
87 GQIPPOVGLPYLQALMPFKLPNLFG-KIPEISALKDKSLRLSTSLSGVPLPFPQSL 145
93 GTISPLANLSFLTYLDLHN--NSFDCHIPLYGTLFRKMLRLSKNLQGSIPPTLANC 150
146 TKLCLDLSFNKLGVIPQSLTPNLKALHLERNELTGEIPDIFGNFAGSPDIYLSHNQ 205
151 RSLRNLTISFNNLTGNIIPQLCLPLNLCMSGINNLTGTIPDCIGNISLQYLSQGN 210
206 LIGFVPKTFAR-ADPIRLDFSGNRLGDISFLFGPKRLKLEMLD----- 247
211 LOGSVPELGRISODIIVDLFGNHLTGCPSSLSNCTNELDIDNDQLVGHI PSHLCTK 270
248 -----FSGNVLSPNFSRVQEPFPPSLTYLDLHNQISGLSELAKL--- 288

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Db 271 KTTQMLMYLRGANGOLSGVPSLFFNCTKIQE-----IALPYNQSLGIVPMEKLTHTL 323
Qy 289 -----DLQTFNVSDNNLCGKIPFG-GNLOR 312
Db 324 QRLFFGNGYFISGNTWRCPTILTALSNCSDLOQYVDLSENNFTQQLPFGIGHLSK 376

RESULT 8
US-09-180-439-4
; Sequence 4, Application US/09180439
; Patent No. 6225532
; GENERAL INFORMATION:
; APPLICANT: Dixon, Mark S
; APPLICANT: Hatziathanis, Kostas
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
; FILE REFERENCE: 620 - 53
; CURRENT APPLICATION NUMBER: US/09/180,439
; CURRENT FILING DATE: 1998-12-06
; EARLIER APPLICATION NUMBER: PCT/GB97/01249
; EARLIER FILING DATE: 1997-05-08
; EARLIER APPLICATION NUMBER: GB 9609681.3
; EARLIER FILING DATE: 1996-05-09
; EARLIER APPLICATION NUMBER: GB 9619924.5
; EARLIER FILING DATE: 1996-09-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 968
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-09-180-439-4

Query Match 18.4%; Score 322.5; DB 4; Length 968;
Best Local Similarity 29.3%; Pred. No. 5.9e-26;
Matches 111; Conservative 45; Mismatches 142; Indels 81; Gaps 12;

Qy 30 NNNDKQALLQIKTALKNP--TITDSWVSDDDC-GMDLVEC----- 67
Db 27 STEATALLMKKATFKQNNNSFLASWTSSNACKDWGVCLNGRVNTLNTNASVIGTL 86
Qy 68 -----DETNR1-----ISLIID--DEALTGQIPPOVGDLPYQ 100
Db 87 YAFPFSSLPFLENLDLSNNNISGTIPPEIGNLTNLVYLDLNTNOISGTTIPQISLAKLQ 146
Qy 101 ALMFRKLPN-LFGKIPPEISALDKSLRSLSTLSGVPVLPFPQTLTKLCLDLSFKKL 159
Db 147 II--RIFNHNLNGTIPPEIGYLRSLTKLSGINFLSGSIPASLGMMTSLFLFLYENQLS 204
Qy 160 GVIPPOLSTLPNKLALHLENEELTGEIPDIFGNFAGSPDIYLSHNOULTGVPKTFARADP 219
Db 205 GFIPPEIGYLRSLTKLSLDINFLSGSIPASLGNNLSFLVYNNQSLGSIPEEIGYLRSL 264
Qy 220 I-RUDFSGNRLGEDISLFGPKRLEMLDFSGNVLSFNSFVQEFPPSLTYLDLNNHNOIS 278
Db 265 LTKLSLGINFLSGSIPASLGNNLSRLDLVYNNKLSGSIPEEIGYLRSLTYLDGENALN 324
Qy 279 GSLSELAKU-DLQTFNVSDNNLCGKIP-----TGNNLOR 312
Db 325 GSIPSSIGNLNNLSRLDLVYNNKLSGSIPEEIGYLRSLTYLDGENALN 384
Qy 313 FDRTAYLHNSCLCGAPLPE 331
Db 385 L-FMLVLYNNQLSGS-IPE 401

RESULT 9
US-09-180-439-3
; Sequence 3, Application US/09180439
; Patent No. 6225532
; GENERAL INFORMATION:
```

```
; APPLICANT: Dixon, Mark S
; APPLICANT: Hatziathanis, Kostas
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
; FILE REFERENCE: 620 - 53
; CURRENT APPLICATION NUMBER: US/09/180,439
; CURRENT FILING DATE: 1998-12-06
; EARLIER APPLICATION NUMBER: PCT/GB97/01249
; EARLIER FILING DATE: 1997-05-08
; EARLIER APPLICATION NUMBER: GB 9609681.3
; EARLIER FILING DATE: 1996-05-09
; EARLIER APPLICATION NUMBER: GB 9619924.5
; EARLIER FILING DATE: 1996-09-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 3
; LENGTH: 968
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-09-180-439-3

Query Match 18.3%; Score 320.5; DB 4; Length 968;
Best Local Similarity 29.3%; Pred. No. 9.7e-26;
Matches 111; Conservative 44; Mismatches 143; Indels 81; Gaps 12;

Qy 30 NNNDKQALLQIKTALKNP--TITDSWVSDDDC-GMDLVEC----- 67
Db 27 STEATALLMKKATFKQNNNSFLASWTSSNACKDWGVCLNGRVNTLNTNASVIGTL 86
Qy 68 -----DETNR1-----ISLIID--DEALTGQIPPOVGDLPYQ 100
Db 87 YAFPFSSLPFLENLDLSNNNISGTIPPEIGNLTNLVYLDLNTNOISGTTIPQISLAKLQ 146
Qy 101 ALMFRKLPN-LFGKIPPEISALDKSLRSLSTLSGVPVLPFPQTLTKLCLDLSFKKL 159
Db 147 II--RIFNHNLNGTIPPEIGYLRSLTKLSGINFLSGSIPASLGMMTSLFLFLYENQLS 204
Qy 160 GVIPPOLSTLPNKLALHLENEELTGEIPDIFGNFAGSPDIYLSHNOULTGVPKTFARADP 219
Db 205 GFIPPEIGYLRSLTKLSLDINFLSGSIPASLGNNLSFLVYNNQSLGSIPEEIGYLRSL 264
Qy 220 I-RUDFSGNRLGEDISLFGPKRLEMLDFSGNVLSFNSFVQEFPPSLTYLDLNNHNOIS 278
Db 265 LTKLSLGINFLSGSIPASLGNNLSRLDLVYNNKLSGSIPEEIGYLRSLTYLDGENALN 324
Qy 279 GSLSELAKU-DLQTFNVSDNNLCGKIP-----TGNNLOR 312
Db 325 GSIPSSIGNLNNLSRLDLVYNNKLSGSIPEEIGYLRSLTYLDGENALN 384
Qy 313 FDRTAYLHNSCLCGAPLPE 331
Db 385 L-FMLVLYNNQLSGS-IPE 401

RESULT 10
US-09-180-439-8
; Sequence 8, Application US/09180439
; Patent No. 6225532
; GENERAL INFORMATION:
; APPLICANT: Dixon, Mark S
; APPLICANT: Hatziathanis, Kostas
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
; FILE REFERENCE: 620 - 53
; CURRENT APPLICATION NUMBER: US/09/180,439
; CURRENT FILING DATE: 1998-12-06
; EARLIER APPLICATION NUMBER: PCT/GB97/01249
; EARLIER FILING DATE: 1997-05-08
; EARLIER APPLICATION NUMBER: GB 9609681.3
; EARLIER FILING DATE: 1996-05-09
; EARLIER APPLICATION NUMBER: GB 9619924.5
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; EARLIER FILING DATE: 1996-09-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO: 8
; LENGTH: 1016
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-09-180-439-8

Query Match      18.2%; Score 319.5; DB 4; Length 1016;
Best Local Similarity 29.0%; Pred. No. 1.3e-25;
Matches 110; Conservative 45; Mismatches 143; Indels 81; Gaps 12;

QY      30 NNNKQALLQITALKNP--TTDSWSDDDCC--GWDIVEC----- 67
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      27 STEEATALLKWKATPEKONNSFLASMTTSSNACKMVGVCINGRVLNTINTNASVIGTL 86
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      68 -----DETGNRI-----ISLIOD--DEALTGOIPPOVGDLPYLQ 100
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      87 YAFPSSSLPELENLDSNNNISGTTIPEIGNLTVLVDLNTNQISGTTIPQIGSLAKLQ 146
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      101 ALMFRLPN-LFGKIPPEISALKDKSLRLSTSLSGVPPLFFPOLTKLCTDLSFNKL 159
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      147 II--RIFFNNHNLNGFIPEIGYIRSLTKSLGINFLSGSIPASLGMTMLSFLEYENQLS 204
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      160 GVIPPQLSTLPNLKALHERNELTGEIPDIFGNFAGSPDIYLSHNQLTGVFVPKTFARADP 219
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      205 GFIPPEIGYIRSLTKSLDINFLSGSIPASLGNNLNSFLYLYNNQSGSIPPEIGYLR 264
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      220 I-RIDFSGNRLGDISFLFGPKKLEMLDFSGNVLSFNSRQVEPPPTVLDLNNHNS 278
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      265 LTKLSLGINFLSGSIPASLGNNLNSRLDLYNNKLSGSIPEIGYLRSLTYLDGENALN 324
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      279 GSLSELAKLD-----LOTFNVDNNLGGKIPITG--GNLQR 312
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      325 GSIPASLGNNLNFMLYLYNNQSGSIPPEIGYLRSLTYLDGENALN 384
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      313 FDRYVLYHNSCLCGAPLPE 331
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      385 LSRLD-LYNNKLSGS-IP 401
      : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 11
US-08-881-706-2
; Sequence 2, Application US/08881706
; Patent No. 6245969
; GENERAL INFORMATION:
; APPLICANT: Chong, Joane
; APPLICANT: Li, Jiaming
; TITLE OF INVENTION: Receptor Kinase BIN1
; FILE REFERENCE: 07251/022001
; CURRENT APPLICATION NUMBER: US/08/881,706
; CURRENT FILING DATE: 1997-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO: 2
; LENGTH: 1196
; TYPE: PRT
; ORGANISM: Arabidopsis sp.
US-08-881-706-2

Query Match      18.0%; Score 315.5; DB 4; Length 1196;
Best Local Similarity 28.3%; Pred. No. 4.7e-25;
Matches 112; Conservative 48; Mismatches 143; Indels 93; Gaps 13;

QY      20 LPNLSAS-----QRNNNDKQALLQITALKNP--TTDSWSDDDCCG--DIVECET 70
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      385 LTNLSASLTLDLSSNNNSGPTL--PNLCQPKNTLQELVLYQNNNGFTGKIPPTLSNCS 441
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      71 SNRIISLIIQDDEALTGOIPPOVGDLPYLQ--ALMFRLPNLFGKIPPEISALKDKLSLR 128
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      442 ---LVSLSHLSFN-YLSGTIPSSLSGSLSKLRDKMLNMLE---GRIPGLMNVKLTLETLI 494
      : : : : : : : : : : : : : : : : : : : : : : : :

```

```

QY      129 LSTSLSGVPPLFPFPOITKLTCTDLSNKKLGVIPPOLSTLPNLKALHERNELTGEIPD 188
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      495 LDFNDLTGEIPSGLSNCTNLTNMTLSNNRSLTGEIPKIGRLLENLAILKLSNNSFSGNIPD 554
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      189 IFGNFAGSPDIYLSHNQLTGFVPEKT--FARADPIRLDP-----SGN 227
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      555 ELDDCRSLIWLDTNLTNLFNGTTIPAAFPKQSGKTAAPFIACKRVYIKNDGKKKEGAGN 614
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      228 RLE-----GDISFLFGPKKLEMLDFSGNVLSFNSRVQ 261
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      615 LLEFGQIRSEQLNRLSTRNPNCTITSRVYGHTSPFTDNNNGMMFLDMSYNNLSGYIPKEI 674
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      262 EFPPSLTYLDLNNQSGLSSELA-----KUD-----LOTFNVS 296
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      675 GSNPFYELNLEGNDSISIPDEVGLRGILNILDSSNKLDGRIPOAMSALTMLTEIDLS 734
      : : : : : : : : : : : : : : : : : : : : : : : :
QY      297 DNNLCGKIPFGNLOPFDRYVLYHNSCLCGAPLPEC 332
      : : : : : : : : : : : : : : : : : : : : : : : :
DB      735 NNNLSGPIPEMGQETTPPAKFLNPNOLCGYLPKRC 770
      : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 12
US-09-353-585-2
; Sequence 2, Application US/09353585
; Patent No. 6287865
; GENERAL INFORMATION:
; APPLICANT: Dixon, Mark S
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses
; thereof
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye PC
; STREET: 8th Floor, 1100 No. 6287865th Giebe Road
; City: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/353,585
; FILING DATE: 15-Jul-1999
; CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q
; 1/68
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/930,277
; FILING DATE: 27-OCT-1997
; APPLICATION NUMBER: PCT/GB96/00785
; FILING DATE: 01-APR-1996
; APPLICATION NUMBER: GB 9506658.5
; FILING DATE: 31-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ms Mary J Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-69
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1112 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Tomato

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STRAIN: C12
SEQUENCE DESCRIPTION: SEQ ID NO: 2
US-09-353-585-2

Query Match 17.9%; Score 315; DB 4; Length 1112;
Best Local Similarity 30.8%; Pred. No. 4, 8e-25;
Matches 108; Conservative 41; Mismatches 146; Indels 56; Gaps 11;

30 NNNKQALLQIKTALKNP--TITDSWV--SDDDCCGMDLVEC-----67
27 STEEATALLKWKATPFKQNNNSFLASWIPSSNACKDWYGVCFNGRVNTLNTNASVIGTL 86
68 -----DETSNRI-----ISLIID--DEALTQIIPPOVGDLPYLQ 100
87 YAFPSLSPLSENLDLSKNNIYGTIPPEIGNLTNLVYLDLNNNQISGRIPIQIGLAKLQ 146

101 ALMFRKLPR-LFGKIPPEISALKDKLSRLSTSLSGPVPPLFPQQLTKLTDLSFNKLL 159
147 II--RIFHQNGFIPEKIGYRLSLTKSLGINFLSGSIPASVGNLNNLSFLYLYNNQLS 204

160 GVIPPOLSTLPNLKALHERNELTGEIPDIFGNFAGSPDIYLSHNQLTGFVPKTFARADP 219
205 GSIPPEISYLRSLTELDLSDNALNGSIPASLGNMNNLSFLYXNQLSGSIPPEICYLRS 264

220 IR-LDFSGNRLGDISFLFGPKRLEMLDFSGNVLSFNFSRVQEPFPSLTYLDLNNQIS 278
265 LTYLDLSENALNGSIPASLGNLNNLSFLYXNQLSGSIPPEIGYRLSLVGLSENNLN 324

279 GSLSSELAKL-DLQTFNVSDNNLCGKIPTG-GNLQRFDRITVLAHNSCLCGA 327
325 GSIPASLGNLKNLSRLNLVNNQLSGSIPASLGNLNNLS-MLYLYNNQLSGS 374

RESULT 13
US-09-353-585-3
Sequence 3, Application US/09353585
Patent No. 6287865
GENERAL INFORMATION:
APPLICANT: Dixon, Mark S
Jones, David A
TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6287865th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/353,585
FILING DATE: 15-Jul-1999
CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q 1/68

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/930,277
FILING DATE: 27-OCT-1997
APPLICATION NUMBER: PCT/GB96/00785
FILING DATE: 01-APR-1996
APPLICATION NUMBER: GB 9506658.5
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ms Mary J Wilson
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 620-69
TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1112 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Tomato
STRAIN: C12

US-09-353-585-3
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-353-585-3

Query Match 17.9%; Score 315; DB 4; Length 1112;
Best Local Similarity 30.8%; Pred. No. 4, 8e-25;
Matches 108; Conservative 41; Mismatches 146; Indels 56; Gaps 11;

30 NNNKQALLQIKTALKNP--TITDSWV--SDDDCCGMDLVEC-----67
27 STEEATALLKWKATPFKQNNNSFLASWIPSSNACKDWYGVCFNGRVNTLNTNASVIGTL 86
68 -----DETSNRI-----ISLIID--DEALTQIIPPOVGDLPYLQ 100
87 YAFPSLSPLSENLDLSKNNIYGTIPPEIGNLTNLVYLDLNNNQISGRIPIQIGLAKLQ 146

101 ALMFRKLPR-LFGKIPPEISALKDKLSRLSTSLSGPVPPLFPQQLTKLTDLSFNKLL 159
147 II--RIFHQNGFIPEKIGYRLSLTKSLGINFLSGSIPASVGNLNNLSFLYLYNNQLS 204

160 GVIPPOLSTLPNLKALHERNELTGEIPDIFGNFAGSPDIYLSHNQLTGFVPKTFARADP 219
205 GSIPPEISYLRSLTELDLSDNALNGSIPASLGNMNNLSFLYXNQLSGSIPPEICYLRS 264

220 IR-LDFSGNRLGDISFLFGPKRLEMLDFSGNVLSFNFSRVQEPFPSLTYLDLNNQIS 278
265 LTYLDLSENALNGSIPASLGNLNNLSFLYXNQLSGSIPPEIGYRLSLVGLSENNLN 324

279 GSLSSELAKL-DLQTFNVSDNNLCGKIPTG-GNLQRFDRITVLAHNSCLCGA 327
325 GSIPASLGNLKNLSRLNLVNNQLSGSIPASLGNLNNLS-MLYLYNNQLSGS 374

RESULT 14
US-08-473-553A-5
Sequence 5, Application US/08473553A
Patent No. 5859338
GENERAL INFORMATION:
APPLICANT: Meyerowitz, Elliot M.
Clark, Steven E.
Williams, Robert W.
TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
TITLE OF INVENTION: Transformed Plants, and Proteins
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fleht, Hohbach, Test, Albritton & Herbert
STREET: Four Emparadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/473,553A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 6.9162 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-1

Perfect score: 38

Sequence: 1 LPNLFKG 7

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 segs, 118759770 residues
Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PTI_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	34	89.5	615	10 US-09-899-482-3	Sequence 3, App1
2	33	86.8	534	10 US-09-312-762A-4	Sequence 4, App1
3	33	86.8	534	10 US-09-312-762A-5	Sequence 5, App1
4	31	81.6	489	9 US-09-533-029-60	Sequence 60, App1
5	31	81.6	559	9 US-09-284-320-21	Sequence 21, App1
6	31	81.6	559	9 US-10-205-823-331	Sequence 331, App1
7	30	78.9	266	9 US-10-153-668-29	Sequence 29, App1
8	30	78.9	452	9 US-10-184-832-5	Sequence 5, App1
9	30	78.9	482	12 US-10-042-417-14	Sequence 14, App1
10	30	78.9	666	10 US-09-804-551B-16	Sequence 16, App1
11	30	78.9	1718	9 US-10-223-070-21	Sequence 21, App1
12	29	76.3	39	10 US-09-910-071-2	Sequence 2, App1
13	29	76.3	57	10 US-09-864-761-43570	Sequence 43570, A
14	29	76.3	254	9 US-09-880-748-905	Sequence 905, App1
15	29	76.3	319	9 US-10-106-698-4861	Sequence 4861, App1
16	29	76.3	437	10 US-09-815-242-5664	Sequence 5664, App1
17	29	76.3	520	10 US-09-815-242-12205	Sequence 12205, A
18	29	76.3	616	9 US-10-260-877-120	Sequence 120, App1
19	29	76.3	937	10 US-09-949-192-19	Sequence 19, App1

20	29	76.3	1565	9 US-10-242-056-59	Sequence 59, App1
21	29	76.3	1689	9 US-10-080-943-2	Sequence 2, App1
22	28	73.7	32	10 US-09-897-107-99	Sequence 99, App1
23	28	73.7	60	9 US-09-813-153-97	Sequence 97, App1
24	28	73.7	67	9 US-10-073-961-243	Sequence 243, App1
25	28	73.7	67	10 US-09-764-887-243	Sequence 243, App1
26	28	73.7	107	10 US-09-893-737-194	Sequence 194, App1
27	28	73.7	107	10 US-09-992-753-2	Sequence 2, App1
28	28	73.7	212	10 US-09-864-761-46654	Sequence 46654, A
29	28	73.7	248	9 US-09-986-480-316	Sequence 316, App1
30	28	73.7	317	10 US-09-312-762A-9	Sequence 9, App1
31	28	73.7	331	9 US-10-102-806-473	Sequence 473, App1
32	28	73.7	333	9 US-10-156-761-12325	Sequence 12325, A
33	28	73.7	379	9 US-09-966-480-180	Sequence 180, App1
34	28	73.7	392	9 US-10-295-220-14	Sequence 14, App1
35	28	73.7	466	10 US-09-765-205-28	Sequence 28, App1
36	28	73.7	524	9 US-10-156-761-10826	Sequence 10826, A
37	28	73.7	535	10 US-09-312-762A-10	Sequence 10, App1
38	28	73.7	552	10 US-09-835-654-2	Sequence 2, App1
39	28	73.7	572	10 US-09-815-242-5626	Sequence 5626, App1
40	28	73.7	573	10 US-09-815-242-12247	Sequence 12247, A
41	28	73.7	573	10 US-09-815-242-12247	Sequence 12247, A
42	28	73.7	579	9 US-10-242-056-51	Sequence 51, App1
43	28	73.7	1066	9 US-10-128-714-3190	Sequence 3190, App1
44	28	73.7	1066	9 US-10-128-714-8190	Sequence 8190, App1
45	28	73.7	2516	9 US-10-242-056-47	Sequence 47, App1

ALIGNMENTS

RESULT 1
US-09-899-482-3
; Sequence 3, Application US/09899482
; Patent No. US20020006641A1
GENERAL INFORMATION:
; APPLICANT: Quax, Wilhelmus J.
; TITLE OF INVENTION: Increasing Production of Proteins in Microorganisms
; FILE REFERENCE: GC385-PCT
; CURRENT APPLICATION NUMBER: US/09/899,482
; CURRENT FILING DATE: 2001-07-05
; PRIOR APPLICATION NUMBER: EP 97305286.3
; PRIOR FILING DATE: 1997-07-16
; PRIOR APPLICATION NUMBER: EP 97305344.0
; PRIOR FILING DATE: 1997-07-17
; NUMBER OF SEQ. ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ. ID NO 3
; LENGTH: 615
; TYPE: PRT
; ORGANISM: E. coli
US-09-899-482-3

Query Match 89.5%; Score 34; DB 10; Length 615;
Best Local Similarity 85.7%; Pred. NO. 57;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Db 25 LPNLFKG 31

RESULT 2
US-09-312-762A-4
; Sequence 4, Application US/09312762A
; Patent No. US20020115069A1
GENERAL INFORMATION:
; APPLICANT: MIA HOROWITZ ET AL.
; TITLE OF INVENTION: EH DOMAIN CONTAINING GENES AND PROTEINS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
; STREET: 2001 Jefferson Davis Highway, Suite 207

```

; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
; OPERATING SYSTEM: MS DOS version 6.2,
; SOFTWARE: Word for Windows version 2.0 converted to
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/312,762A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/026,898
; FILING DATE: 20 FEB 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Friedmann, Mark M.
; REGISTRATION NUMBER: 33,883
; REFERENCE/DOCKET NUMBER: 916/10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 972-3-562553
; TELEFAX: 972-3-562554
; TELETYPE:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 534
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-312-762A-4

Query Match      86.8%; Score 33; DB 10; Length 534;
Best Local Similarity 71.4%; Pred. No. 80;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 LPNLFCK 7
Db      318 MPNVFGK 324

RESULT 3
US-09-312-762A-5
; Sequence 5, Application US/09312762A
; Patent No. US20020115069A1
; GENERAL INFORMATION:
; APPLICANT: MIA HOROWITZ ET AL.
; TITLE OF INVENTION: EH DOMAIN CONTAINING GENES AND PROTEINS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
; STREET: 2001 Jefferson Davis Highway, Suite 207
; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
; COMPUTER: Twinhead* Slimnote-890TX
; OPERATING SYSTEM: MS DOS version 6.2,
; SOFTWARE: Word for Windows version 3.11
; SOFTWARE: an ASCII file
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/312,762A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/026,898
; FILING DATE: 20 FEB 1998
; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: Friedmann, Mark M.
; REGISTRATION NUMBER: 33,883
; REFERENCE/DOCKET NUMBER: 916/10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 972-3-562553
; TELEFAX: 972-3-562554
; TELETYPE:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 534
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-312-762A-5

Query Match      86.8%; Score 33; DB 10; Length 534;
Best Local Similarity 71.4%; Pred. No. 80;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 LPNLFCK 7
Db      318 MPNVFGK 324

RESULT 4
US-09-533-029-60
; Sequence 60, Application US/09533029
; Publication No. US20030046723A1
; GENERAL INFORMATION:
; APPLICANT: Heard, Jacqueline
; APPLICANT: Brown, Pierre
; APPLICANT: Riechmann, Jose-Luis
; APPLICANT: Keddie, James
; APPLICANT: Pineda, Omaira
; APPLICANT: Adam, Luc
; APPLICANT: Samaha, Raymond
; APPLICANT: Zhang, James
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Ratcliffe, Oliver
; APPLICANT: Pilgrim, Marsha
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Reuber, Lynne
; TITLE OF INVENTION: DISEASE-INDUCED POLYNUCLEOTIDES
; FILE REFERENCE: MBI-010
; CURRENT APPLICATION NUMBER: US/09/533,029
; CURRENT FILING DATE: 2000-03-22
; EARLIER APPLICATION NUMBER: 60/125,814
; EARLIER FILING DATE: 1999-03-23
; NUMBER OF SEQ ID NOS: 121
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 60
; LENGTH: 489
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: G1417
; US-09-533-029-60

Query Match      81.6%; Score 31; DB 9; Length 489;
Best Local Similarity 83.3%; Pred. No. 1,9e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LPNLFCK 6
Db      407 IPNLFCK 412

RESULT 5
US-09-284-320-21
; Sequence 21, Application US/09284320
; Publication No. US20030092175A1
; GENERAL INFORMATION:
; APPLICANT: Kato, Seishi et al.

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; TITLE OF INVENTION: HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs
; FILE REFERENCE: GIN-6705CPUS
; CURRENT APPLICATION NUMBER: US/09/284,320
; CURRENT FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: JP 8-301429
; PRIOR FILING DATE: 1996-11-13
; PRIOR APPLICATION NUMBER: PCT/JP97/04056
; PRIOR FILING DATE: 1997-11-07
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 21
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-284-320-21

Query Match      81.6%; Score 31; DB 9; Length 559;
Best Local Similarity 83.3%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY      1 LPNLFG 6
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Db      156 LPNMFG 161

RESULT 6
US-10-205-823-331
; Sequence 331, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbacheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Monsey, Angela M.
; APPLICANT: Glact, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dustin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 331
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-205-823-331

Query Match      81.6%; Score 31; DB 9; Length 559;
Best Local Similarity 83.3%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY      1 LPNLFG 6
        |||:|
Db      156 LPNMFG 161
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; TITLE OF INVENTION: HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs
; FILE REFERENCE: GIN-6705CPUS
; CURRENT APPLICATION NUMBER: US/09/284,320
; CURRENT FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: JP 8-301429
; PRIOR FILING DATE: 1996-11-13
; PRIOR APPLICATION NUMBER: PCT/JP97/04056
; PRIOR FILING DATE: 1997-11-07
; NUMBER OF SEQ ID NOS: 91
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 21
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-284-320-21

Query Match      81.6%; Score 31; DB 9; Length 559;
Best Local Similarity 83.3%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY      1 LPNLFG 6
        |||:|
Db      156 LPNMFG 161

RESULT 7
US-10-153-668-29
; Sequence 29, Application US/10153668
; Publication No. US20030092616A1
; GENERAL INFORMATION:
; APPLICANT: HONDA, Goichi
; APPLICANT: MATSUDA, Akio
; APPLICANT: MURAMATSU, Shuji
; APPLICANT: ISHIZAWA, Kenya
; TITLE OF INVENTION: STAT6 Activating Gene
; FILE REFERENCE: 1254-0207P
; CURRENT APPLICATION NUMBER: US/10/153,668
; CURRENT FILING DATE: 2002-05-24
; PRIOR APPLICATION NUMBER: US 60/293,172
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/316,031
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: US 60/328,403
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: JP 2001-157043
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: JP 2001-260681
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: JP 2001-313175
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 488
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 29
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-153-668-29

Query Match      78.9%; Score 30; DB 9; Length 266;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY      1 LPNLFG 6
        |||:|
Db      38 LPNLFG 43

RESULT 8
US-10-184-832-5
; Sequence 5, Application US/10184832
; Publication No. US20030022857A1
; GENERAL INFORMATION:
; APPLICANT: Xu et al.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: TREATMENT OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
; FILE REFERENCE: MPI2001-056P1NM
; CURRENT APPLICATION NUMBER: US/10/184,832
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/303,250
; PRIOR FILING DATE: 2001-07-05
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 5
; LENGTH: 452
; TYPE: PRT
; ORGANISM: Mus musculus
; US-10-184-832-5

Query Match      78.9%; Score 30; DB 9; Length 452;
Best Local Similarity 85.7%; Pred. No. 2.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 LPNLFG 7
        |||:|
Db      308 LPNLFG 314
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RESULT 9
US-10-042-417-14
; Sequence 14, Application US/10042417
; Patent No. US20020123082A1
; GENERAL INFORMATION:
; APPLICANT: Pagano, M.
; TITLE OF INVENTION: METHODS TO IDENTIFY COMPOUNDS USEFUL FOR THE TREATMENT OF
; TITLE OF INVENTION: PROLIFERATIVE AND DIFFERENTIATIVE DISORDERS
; FILE REFERENCE: 5914-090-999
; CURRENT APPLICATION NUMBER: US/10/042,417
; CURRENT FILING DATE: 2002-01-07
; PRIOR APPLICATION NUMBER: 60/260,179
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 482
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-042-417-14

Query Match      78.9%; Score 30; DB 12; Length 482;
Best Local Similarity 83.3%; Pred. No. 3e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 LPNLFK 6
       |||||
Db      286 LPNVFG 291

RESULT 10
US-09-804-551B-16
; Sequence 16, Application US/09804551B
; Patent No. US20020056151A1
; GENERAL INFORMATION:
; APPLICANT: Bayer Aktiengesellschaft
; TITLE OF INVENTION: Receptors for peptides from insects
; FILE REFERENCE: Le A 34 394
; CURRENT APPLICATION NUMBER: US/09/804,551B
; CURRENT FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: DE 100 13 618.4
; PRIOR FILING DATE: 2000-03-18
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-804-551B-16

Query Match      78.9%; Score 30; DB 10; Length 666;
Best Local Similarity 71.4%; Pred. No. 4.1e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 LPNLFK 7
       |||||
Db      80 MBELFGK 86

RESULT 11
US-10-223-070-21
; Sequence 21, Application US/10223070
; Publication No. US20030109045A1
; GENERAL INFORMATION:
; APPLICANT: NELSON, RICHARD S.
; APPLICANT: DING, XIN SHUN
; TITLE OF INVENTION: RNA SILENCING SUPPRESSION
; FILE REFERENCE: NBL0060US
; CURRENT APPLICATION NUMBER: US/10/223,070
; CURRENT FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: 60/313,185
; PRIOR FILING DATE: 2002-08-17
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; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 1718
; TYPE: PRT
; ORGANISM: Shallic virus X
US-10-223-070-21

Query Match      78.9%; Score 30; DB 9; Length 1718;
Best Local Similarity 85.7%; Pred. No. 1.1e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LPNLFK 7
       |||||
Db      372 LPNLFK 378

RESULT 12
US-09-910-071-2
; Sequence 2, Application US/09910071
; Patent No. US20020116146A1
; GENERAL INFORMATION:
; APPLICANT: Tomikawa, Mayumi
; APPLICANT: Aikawa, Seichi
; APPLICANT: Matsuzawa, Fumiko
; TITLE OF INVENTION: Method and Apparatus for Extracting and Evaluating Mutually Simi
; TITLE OF INVENTION: Portions in One-Dimensional Sequences in Molecules and/or Three
; FILE REFERENCE: 522,1921D2
; CURRENT APPLICATION NUMBER: US/09/910,071
; CURRENT FILING DATE: 2001-07-23
; PRIOR APPLICATION NUMBER: US 08/014,867
; PRIOR FILING DATE: 1993-02-08
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 39
; TYPE: PRT
; ORGANISM: bacterium
US-09-910-071-2

Query Match      76.3%; Score 29; DB 10; Length 39;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 PNLFK 6
       |||||
Db      33 PNLFK 37

RESULT 13
US-09-864-761-43570
; Sequence 43570, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/652,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263,6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
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; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO: 43570
; LENGTH: 57
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC002288.1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.93
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.9
; OTHER INFORMATION: EST HUMAN HIT: AA071547.1, EVALUE 3.00e-24
; OTHER INFORMATION: SWISSPROT HIT: P00008, EVALUE 7.00e-26
; US-09-860-761-43570

Query Match
Best Local Similarity 76.3%; Score 29; DB 10; Length 57;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 PNLFG 6
Db 27 PNLFG 31

RESULT 14
US-09-860-748-905
; Sequence 905, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antidodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523
; CURRENT APPLICATION NUMBER: US/09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
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; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 905
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-860-748-905
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Query Match
Best Local Similarity 71.4%; Score 29; DB 9; Length 254;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY 1 LPNLFGK 7
Db 240 LPNLFGK 246
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RESULT 15
US-10-106-698-4861
; Sequence 4861, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005PI
; CURRENT APPLICATION NUMBER: US/10/106,698
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO: 4861
; LENGTH: 319
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-106-698-4861
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Query Match
Best Local Similarity 76.3%; Score 29; DB 9; Length 319;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 2 PNLFG 6
Db 64 PNLFG 68
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Job time : 6.91162 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 / Search time 1.2904 Seconds
(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-1
Perfect score: 38
Sequence: 1 LPNLFCK 7

Scoring table:
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Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Issued Parents AA: *
1: /cgnt2_6/prodata/1/iaa/5A_COMB.pep: *
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3: /cgnt2_6/prodata/1/iaa/5A_COMB.pep: *
4: /cgnt2_6/prodata/1/iaa/5B_COMB.pep: *
5: /cgnt2_6/prodata/1/iaa/PCUTUS_COMB.pep: *
6: /cgnt2_6/prodata/1/iaa/backfill.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	38	100.0	7	3	US-08-898-351-1
2	34	89.5	615	4	US-09-462-844-3
3	30	78.9	615	2	US-08-484-101B-38
4	30	78.9	615	4	US-08-714-524D-38
5	29	76.3	694	2	US-08-701-240-2
6	29	76.3	694	4	US-09-138-236-2
7	28	73.7	357	4	US-09-196-520-10
8	28	73.7	361	4	US-09-196-520-6
9	28	73.7	362	4	US-09-196-520-4
10	28	73.7	362	4	US-09-196-520-8
11	28	73.7	364	4	US-09-196-520-9
12	28	73.7	365	4	US-09-196-520-2
13	28	73.7	366	2	US-08-984-111-4
14	28	73.7	581	4	US-09-323-872A-46
15	28	73.7	1265	4	US-09-347-878-5
16	28	73.7	1265	4	US-09-347-878-7
17	28	73.7	2522	4	US-09-251-645-13
18	27	71.1	14	3	US-09-101-167-11
19	27	71.1	83	3	US-08-851-843A-9
20	27	71.1	83	4	US-08-974-549A-191
21	27	71.1	83	4	US-08-854-050-9
22	27	71.1	83	4	US-09-430-323-9
23	27	71.1	85	3	US-08-851-843A-11
24	27	71.1	85	4	US-08-974-549A-193
25	27	71.1	85	4	US-08-854-050-11
26	27	71.1	85	4	US-09-430-323-11
27	27	71.1	94	4	US-08-974-549A-164

ALIGNMENTS

28	27	71.1	98	4	US-08-936-165A-393	Sequence 193, App
29	27	71.1	107	4	US-09-461-697-322	Sequence 322, App
30	27	71.1	154	4	US-09-404-670-4	Sequence 4, Appl
31	27	71.1	212	4	US-08-937-067-4	Sequence 4, Appl
32	27	71.1	222	2	US-08-756-771-1	Sequence 1, Appl
33	27	71.1	222	2	US-09-096-571-1	Sequence 1, Appl
34	27	71.1	232	4	US-09-309-320-1	Sequence 1, Appl
35	27	71.1	240	4	US-09-355-166-19	Sequence 19, Appl
36	27	71.1	271	2	US-08-956-012-3	Sequence 4, Appl
37	27	71.1	280	4	US-08-893-654B-4	Sequence 2, Appl
38	27	71.1	281	4	US-08-893-654B-2	Sequence 2, Appl
39	27	71.1	295	4	US-08-937-067-2	Sequence 2, Appl
40	27	71.1	329	4	US-09-161-994A-6	Sequence 6, Appl
41	27	71.1	340	2	US-08-757-653-176	Sequence 176, App
42	27	71.1	340	2	US-08-823-516-79	Sequence 79, App
43	27	71.1	340	3	US-08-823-516-136	Sequence 136, App
44	27	71.1	340	3	US-08-759-038-115	Sequence 115, App
45	27	71.1	340	3	US-08-758-314-115	Sequence 115, App

RESULT 1
US-08-898-351-1
Sequence 1, Application US/08898351A
Patent No. 6096867
GENERAL INFORMATION:
APPLICANT: UNILEVER UNITED STATES, INC
TITLE OF INVENTION: FROZEN FOOD PRODUCT
FILE REFERENCE: FROZEN FOOD PRODUCT
CURRENT FILING DATE: 1997-07-22
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 1
LENGTH: 7
TYPE: PRT
ORGANISM: CARROT ROOT
US-08-898-351-1

Query Match 100.0%; Score 38; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFCK 7
Db 1 LPNLFCK 7
RESULT 2
US-09-462-844-3
Sequence 3, Application US/09462844
Patent No. 6258563
GENERAL INFORMATION:
APPLICANT: Quax, Wilhelmus J.
TITLE OF INVENTION: Increasing Production of Proteins in
FILE REFERENCE: Gram-Positive Microorganisms
CURRENT FILING DATE: 1997-07-15
CURRENT APPLICATION NUMBER: US/09462844
PRIOR FILING DATE: 2000-01-13
PRIOR APPLICATION NUMBER: PCT/US98/14786
PRIOR FILING DATE: 1998-07-15
PRIOR APPLICATION NUMBER: EP 97305286.3
PRIOR FILING DATE: 1997-07-16
PRIOR APPLICATION NUMBER: EP 97305344.0
NUMBER OF SEQ ID NOS: 11
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 615
TYPE: PRT
ORGANISM: Escherichia coli

US-09-462-844-3

Query Match 89.5%; Score 34; DB 4; Length 615;
Best Local Similarity 85.7%; Pred. No. 32;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFSGK 7
:|||||:
Db 25 LPNLFGE 31

RESULT 3

US-08-484-101B-38

Sequence 38, Application US/08484101B

Patent No. 5824868

GENERAL INFORMATION:

APPLICANT: California Institute of Technology

TITLE OF INVENTION: PLANTS HAVING MODIFIED RESPONSE TO

TITLE OF INVENTION: ETHYLENE

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:

ADDRESSEE: Richard F. Treccartin

STREET: 3400 Embarcadero Center, Suite 3400

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,101B

FILING DATE: 07-JUN-1995

CLASSIFICATION: 800

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/

FILING DATE: 01-JUL-1994

CLASSIFICATION: 800

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/086,555

FILING DATE: 01-JUL-1993

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Treccartin, Richard F.

REGISTRATION NUMBER: 31,801

REFERENCE/DOCKET NUMBER: A-57515-2/RFT

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 781-1989

TELEFAX: (415) 398-3249

INFORMATION FOR SEQ ID NO: 38:

SEQUENCE CHARACTERISTICS:

LENGTH: 615 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-484-101B-38

Query Match 78.9%; Score 30; DB 2; Length 615;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFSGK 7
:|||||:
Db 529 IPNLFSGK 535

RESULT 4

US-08-714-524D-38

Sequence 38, Application US/08714524D

Patent No. 6294716

GENERAL INFORMATION:

APPLICANT: Meyerowitz, Elliott M
APPLICANT: Chang, Caren

APPLICANT: Bleecker, Anthony B
TITLE OF INVENTION: PLANTS HAVING MODIFIED RESPONSE TO ETHYLENE

FILE REFERENCE: a-57515-4
CURRENT APPLICATION NUMBER: US/08/714,524D

CURRENT FILING DATE: 1996-09-16
NUMBER OF SEQ ID NOS: 56

SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 38

LENGTH: 615
TYPE: PRT

ORGANISM: Lycopersicon esculentum
US-08-714-524D-38

Query Match 78.9%; Score 30; DB 4; Length 615;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFSGK 7
:|||||:
Db 529 IPNLFSGK 535

RESULT 5

US-08-701-240-2

Sequence 2, Application US/08701240

Patent No. 5912160

GENERAL INFORMATION:

APPLICANT: Wong, Albert J.

TITLE OF INVENTION: GAB1, A GRB2 BINDING PROTEIN, AND

TITLE OF INVENTION: COMPOSITIONS FOR MAKING AND METHODS OF USING THE SAME
NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5912160ris

STREET: One Liberty Place, 46th floor
CITY: Philadelphia

STATE: Pennsylvania
COUNTRY: USA

ZIP: 19103
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/701,240

FILING DATE:
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,641

FILING DATE: US 60/002,641
CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: DeLuca, Mark

REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: TJU-2032

TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100

TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 694 amino acids

TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-701-240-2

Query Match 76.3%; Score 29; DB 2; Length 694;
Best Local Similarity 100.0%; Pred. No. 4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFSGK 7
:|||||:
Db 529 IPNLFSGK 535

OY 2 PNLFG 6
|||||
Db 601 PNLFG 605

RESULT 6

US-09-138-236-2
; Sequence 2, Application US/09138236
; Patent No. 6133428
; GENERAL INFORMATION:
; APPLICANT: Wong, Albert J.
; APPLICANT: Holgado-Madruga, Maria
; TITLE OF INVENTION: GAB1 A GRB2 BINDING PROTEIN, AND
; TITLE OF INVENTION: COMPOSITIONS FOR MAKING AND METHODS OF USING THE SAME
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6133428-15
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER:
; FILING DATE: US/09/138,236
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/701,240
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Deluca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: TUD-2032
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 694 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-138-236-2

Query Match 76.3%; Score 29; DB 4; Length 694;
Best Local Similarity 100.0%; Pred. No. 4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 PNLFG 6
|||||
Db 601 PNLFG 605

RESULT 7

US-09-196-520-10
; Sequence 10, Application US/09196520
; Patent No. 6204039
; GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Solanum tuberosum
US-09-196-520-10

Query Match 73.7%; Score 28; DB 4; Length 357;
Best Local Similarity 66.7%; Pred. No. 3.1e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LPNLFG 6
|||||
Db 256 MPNLFG 261

RESULT 8

US-09-196-520-6
; Sequence 6, Application US/09196520
; Patent No. 6204039
; GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 6
; LENGTH: 361
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (68)
US-09-196-520-6

Query Match 73.7%; Score 28; DB 4; Length 361;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LPNLFG 6
|||||
Db 250 MPNLFG 255

RESULT 9

US-09-196-520-4
; Sequence 4, Application US/09196520
; Patent No. 6204039
; GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 4
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (58)
US-09-196-520-4

Query Match 73.7% Score 28; DB 4; Length 362;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LBNLFG 6
DB 251 MPNLYG 256

RESULT 10

US-09-196-520-8
; Sequence 8, Application US/09196520
; Patent No. 6204039
; GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 362
; TYPE: PRT
; ORGANISM: Triticum sp.
US-09-196-520-8

Query Match 73.7% Score 28; DB 4; Length 362;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LBNLFG 6
DB 251 MPNLYG 256

RESULT 11

US-09-196-520-9
; Sequence 9, Application US/09196520
; Patent No. 6204039
; GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Nicotiana tabacum
US-09-196-520-9

Query Match 73.7% Score 28; DB 4; Length 364;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LBNLFG 6
DB 253 MPNLYG 258

RESULT 12

US-09-196-520-2
; Sequence 2, Application US/09196520
; Patent No. 6204039

GENERAL INFORMATION:
; APPLICANT: Falco, Carl S.
; APPLICANT: Allen, Stephen M.
; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
; FILE REFERENCE: BB-1291
; CURRENT APPLICATION NUMBER: US/09/196,520
; CURRENT FILING DATE: 1998-11-19
; EARLIER APPLICATION NUMBER: 60/067,388
; EARLIER FILING DATE: December 2, 1997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Zea mays
US-09-196-520-2

Query Match 73.7% Score 28; DB 4; Length 365;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 LBNLFG 6
DB 254 MPNLYG 259

RESULT 13

US-08-984-171-4
; Sequence 4, Application US/08984171
; Patent No. 5952177
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: HUMAN CYTOSOLIC ISOCITRATE
; TITLE OF INVENTION: DEHYDROGENASE
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,171
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0434 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 366 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 706839

US-08-984-171-4

Query Match 73.7%; Score 28; DB 2; Length 366;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFG 6
: |||: |
Db 251 MPNLVG 256

RESULT 14

US-09-323-872A-46
; Sequence 46, Application US/09323872A
; Patent No. 6395539
; GENERAL INFORMATION:
; APPLICANT: Coschigano, Peter
; TITLE OF INVENTION: Compositions and Methods for Bioremediation
; FILE REFERENCE: OHU-03640
; CURRENT APPLICATION NUMBER: US/09/323, 872A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/072, 433
; PRIOR FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 46
; LENGTH: 581
; TYPE: PRT
; ORGANISM: Thauera aromatica
US-09-323-872A-46

Query Match 73.7%; Score 28; DB 4; Length 581;
Best Local Similarity 71.4%; Pred. No. 5.3e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFG 7
: |||: |
Db 561 LPKLFGE 567

RESULT 15

US-09-347-878-5
; Sequence 5, Application US/09347878C
; Patent No. 6376210
; GENERAL INFORMATION:
; APPLICANT: Yuan, Chong
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
; FILE REFERENCE: 25885-1651
; CURRENT APPLICATION NUMBER: US/09/347, 878C
; CURRENT FILING DATE: 1999-07-06
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1265
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-347-878-5

Query Match 73.7%; Score 28; DB 4; Length 1265;
Best Local Similarity 83.3%; Pred. No. 1.2e+03;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFG 6
: |||: |
Db 290 LPNTRG 295

Search completed: July 16, 2003, 06:59:02
Job time: 3.2904 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 8.88636 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-2
Perfect score: 42
Sequence: 1 IPEISALK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	34	81.0	164	9	US-09-866-050A-385
2	33	78.6	198	9	US-09-738-626-5310
3	33	78.6	351	9	US-10-101-464A-660
4	33	78.6	463	10	US-09-815-242-13918
5	33	78.6	920	10	US-09-925-301-1396
6	32	76.2	156	9	US-10-101-464A-509
7	32	76.2	1095	9	US-10-128-714-8305
8	31	73.8	147	9	US-10-153-668-364
9	31	73.8	298	10	US-09-925-301-1224
10	31	73.8	541	9	US-10-234-432-37
11	31	73.8	601	9	US-09-934-455-434
12	31	73.8	653	10	US-09-759-010-2
13	31	73.8	654	9	US-09-919-039-260
14	31	73.8	654	10	US-09-919-039-260
15	31	73.8	655	9	US-10-117-641-36
16	31	73.8	655	9	US-10-235-113-36
17	31	73.8	662	9	US-10-234-432-75
18	31	73.8	678	9	US-10-234-432-38
19	31	73.8	680	9	US-10-153-668-244

20	31	73.8	707	9	US-10-101-464A-80	Sequence 80, Appl
21	31	73.8	720	10	US-09-919-497-83	Sequence 83, Appl
22	31	73.8	744	10	US-09-815-242-13390	Sequence 13390, A
23	31	73.8	943	9	US-09-738-626-5199	Sequence 5199, Ap
24	31	73.8	1111	9	US-09-738-626-5581	Sequence 5581, Ap
25	31	73.8	1523	9	US-10-174-590-290	Sequence 290, App
26	31	73.8	1523	9	US-10-176-758-290	Sequence 290, App
27	31	73.8	1523	9	US-10-175-737-290	Sequence 290, App
28	31	73.8	1523	9	US-10-173-706-290	Sequence 290, App
29	31	73.8	1523	9	US-10-175-738-290	Sequence 290, App
30	31	73.8	1523	9	US-10-175-752-290	Sequence 290, App
31	31	73.8	1523	9	US-10-176-482-290	Sequence 290, App
32	31	73.8	1523	9	US-10-176-757-290	Sequence 290, App
33	31	73.8	1523	9	US-10-176-913-290	Sequence 290, App
34	31	73.8	1523	9	US-10-180-552-290	Sequence 290, App
35	31	73.8	1523	9	US-10-180-557-290	Sequence 290, App
36	31	73.8	1523	9	US-10-173-700-290	Sequence 290, App
37	31	73.8	1523	9	US-10-174-572-290	Sequence 290, App
38	31	73.8	1523	9	US-10-174-579-290	Sequence 290, App
39	31	73.8	1523	9	US-10-174-582-290	Sequence 290, App
40	31	73.8	1523	9	US-10-174-588-290	Sequence 290, App
41	31	73.8	1523	9	US-10-175-739-290	Sequence 290, App
42	31	73.8	1523	9	US-10-175-740-290	Sequence 290, App
43	31	73.8	1523	9	US-10-175-743-290	Sequence 290, App
44	31	73.8	1523	9	US-10-176-488-290	Sequence 290, App
45	31	73.8	1523	9	US-10-176-492-290	Sequence 290, App

ALIGNMENTS

RESULT 1
US-09-866-050A-385
; Sequence 385, Application US/09866050A
; Publication No. US20030040471A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Muriel, James G.
; APPLICANT: Kumble, Krishnand D.
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; FILE REFERENCE: 11000.1011CAU
; CURRENT APPLICATION NUMBER: US/09/866,050A
; CURRENT FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 725
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 385
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Mouse
US-09-866-050A-385

Query Match
Best Local Similarity 81.0%; Score 34; DB 9; Length 164;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

DB 142 IPEISALK 150

RESULT 2
US-09-738-626-5310
; Sequence 5310, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIKOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO

APPLICANT: OCHAI, KEIKO
APPLICANT: YOKOI, HARHIKO
APPLICANT: TATEISHI, NAOHO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0
SEQ ID NO 5310
LENGTH: 198
TYPE: PRT
ORGANISM: Corynebacterium glutamicum
US-09-738-626-5310

Query Match
Best Local Similarity 78.6%; Score 33; DB 9; Length 198;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1 IPEISALK 9
112 LPDEVSAKR 120

RESULT 3
US-10-101-464A-660
Sequence 660, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 999
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 660
LENGTH: 381
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-660

Query Match
Best Local Similarity 78.6%; Score 33; DB 9; Length 381;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 IPEISALK 9
15 IPEFSQK 23

RESULT 4
US-09-815-242-13918

Sequence 13918, Application US/09815242
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Onlisen, Karl L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
FILE REFERENCE: ELITRA 011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13918
LENGTH: 463
TYPE: PRT
ORGANISM: Salmonella typhi
US-09-815-242-13918

Query Match
Best Local Similarity 78.6%; Score 33; DB 10; Length 463;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 PEISALK 9
395 PEEVSAK 402

RESULT 5
US-09-925-301-1396
Sequence 1396, Application US/09925301
Patent No. US20020052308A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA106
CURRENT APPLICATION NUMBER: US/09/925,301
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05882
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1694
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1396
LENGTH: 920
TYPE: PRT
ORGANISM: Homo sapiens
US-09-925-301-1396

Query Match
Best Local Similarity 78.6%; Score 33; DB 10; Length 920;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 IPEEISAL 8
 Db 170 IPEELSLK 177

RESULT 6
 US-10-101-464A-509

; Sequence 509, Application US/10101464A
 ; Publication No. US20030046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuizen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 11000.1020C2
 ; CURRENT APPLICATION NUMBER: US/10/101,464A
 ; PRIOR FILING DATE: 2002-03-18
 ; PRIOR APPLICATION NUMBER: 09/704,302
 ; PRIOR FILING DATE: 2000-11-01
 ; PRIOR APPLICATION NUMBER: 09/228,986
 ; PRIOR FILING DATE: 1999-01-12
 ; PRIOR APPLICATION NUMBER: 60/162,866
 ; PRIOR FILING DATE: 1999-11-01
 ; PRIOR APPLICATION NUMBER: PCT/US00/00724
 ; PRIOR FILING DATE: 2000-01-11
 ; NUMBER OF SEQ ID NOS: 989
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 509
 ; LENGTH: 156
 ; TYPE: PRT
 ; ORGANISM: Eucalyptus grandis
 ; US-10-101-464A-509

Query Match 76.2%; Score 32; DB 9; Length 156;
 Best Local Similarity 66.7%; Pred. No. 71;
 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 IPEEISAL 9
 Db 73 IPEELSLK 81

RESULT 7
 US-10-128-714-8305

; Sequence 8305, Application US/10128714
 ; Publication No. US20030119013A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jiang, Bo
 ; APPLICANT: Hu, Wengqi
 ; APPLICANT: Tishkoff, Daniel
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Eroshkin, Alexey M
 ; APPLICANT: Lemieux, Sebastien M
 ; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
 ; TITLE OF INVENTION: Methods of Use
 ; FILE REFERENCE: 10182-018-999
 ; CURRENT APPLICATION NUMBER: US/10/128,714
 ; CURRENT FILING DATE: 2002-04-23
 ; PRIOR APPLICATION NUMBER: US 60/285,697
 ; PRIOR FILING DATE: 2001-04-23
 ; PRIOR APPLICATION NUMBER: US 60/287,066
 ; PRIOR FILING DATE: 2001-04-27
 ; PRIOR APPLICATION NUMBER: US 60/295,890
 ; PRIOR FILING DATE: 2001-06-05
 ; PRIOR APPLICATION NUMBER: US 60/303,899
 ; PRIOR FILING DATE: 2001-07-09
 ; PRIOR APPLICATION NUMBER: US 60/316,362
 ; PRIOR FILING DATE: 2001-08-31
 ; NUMBER OF SEQ ID NOS: 8603
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 8305
 ; LENGTH: 1095

; TYPE: PRT
 ; ORGANISM: Aspergillus fumigatus
 ; FEATURE:
 ; NAME/KEY: MISC FEATURE
 ; LOCATION: (1095)..
 ; OTHER INFORMATION: X= any amino acid
 ; US-10-128-714-8305

Query Match 76.2%; Score 32; DB 9; Length 1095;
 Best Local Similarity 55.6%; Pred. No. 6.9e+02;
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 IPEEISAL 9
 Db 891 VPEEVSEVK 899

RESULT 8
 US-10-153-668-364

; Sequence 364, Application US/10153668
 ; Publication No. US20030092616A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HONDA, Goichi
 ; APPLICANT: MURAMATSU, Akio
 ; APPLICANT: ISHIZAWA, Kenya
 ; TITLE OF INVENTION: State Activating Gene
 ; FILE REFERENCE: 1254-0207P
 ; CURRENT APPLICATION NUMBER: US/10/153,668
 ; CURRENT FILING DATE: 2002-05-24
 ; PRIOR APPLICATION NUMBER: US 60/293,172
 ; PRIOR FILING DATE: 2001-05-25
 ; PRIOR APPLICATION NUMBER: US 60/316,031
 ; PRIOR FILING DATE: 2001-08-31
 ; PRIOR APPLICATION NUMBER: US 60/328,403
 ; PRIOR FILING DATE: 2001-10-12
 ; PRIOR APPLICATION NUMBER: JP 2001-157043
 ; PRIOR FILING DATE: 2001-05-25
 ; PRIOR APPLICATION NUMBER: JP 2001-260681
 ; PRIOR FILING DATE: 2001-08-30
 ; PRIOR APPLICATION NUMBER: JP 2001-313175
 ; PRIOR FILING DATE: 2001-10-10
 ; NUMBER OF SEQ ID NOS: 488
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 364
 ; LENGTH: 147
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-153-668-364

Query Match 73.8%; Score 31; DB 9; Length 147;
 Best Local Similarity 75.0%; Pred. No. 1e+02;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 PEEISAL 9
 Db 135 PEEELSLK 142

RESULT 9
 US-09-925-301-1224

; Sequence 1224, Application US/09925301
 ; Patent No. US20020052308A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 ; FILE REFERENCE: PA106
 ; CURRENT APPLICATION NUMBER: US/09/925,301
 ; CURRENT FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/05882
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: 60/124,270
 ; PRIOR FILING DATE: 1999-03-12

NUMBER OF SEQ ID NOS: 1694
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1224
LENGTH: 298
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (279)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1224

Query Match 73.8% Score 31; DB 10; Length 298;
Best Local Similarity 77.8% Pred. No. 2.4e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 PEISALX 9
Db 62 IPEVISCLK 70

RESULT 10
US-10-234-432-37
Sequence 37, Application US/10234432
Publication No. US20030091598A1
GENERAL INFORMATION:

APPLICANT: Homer, Mary J.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Persing, David H.
APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS AND
FILE REFERENCE: 210121.560
CURRENT APPLICATION NUMBER: US/10/234.432
CURRENT FILING DATE: 2002-08-30
NUMBER OF SEQ ID NOS: 108
SOFTWARE: Corixa Invention Disclosure Database
SEQ ID NO 37
LENGTH: 541
TYPE: PRT
ORGANISM: Babesia sp. WAI
US-10-234-432-37

Query Match 73.8% Score 31; DB 9; Length 541;
Best Local Similarity 85.7% Pred. No. 4.8e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 PEISALX 8
Db 36 PEISAM 42

RESULT 11
US-09-934-455-434
Sequence 434, Application US/09934455
Publication No. US20030121070A1
GENERAL INFORMATION:

APPLICANT: Adam, Luc
APPLICANT: Creelman, Robert
APPLICANT: Dubeil, Arnold
APPLICANT: Heard, Jacqueline
APPLICANT: Jiang, Cai-Zhong
APPLICANT: Keddie, James
APPLICANT: Pilgrim, Marsha
APPLICANT: Ratcliffe, Oliver
APPLICANT: Reuber, Lynne
APPLICANT: Riechmann, Jose Luis
APPLICANT: Yu, Guo-Liang
APPLICANT: Pineda, Omeira
TITLE OF INVENTION: Genes for Modifying Plant Traits IV
FILE REFERENCE: MBI-0025
CURRENT APPLICATION NUMBER: US/09/934.455

CURRENT FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/2227439
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: MBI-0022
PRIOR FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: MBI-0023
PRIOR FILING DATE: 2001-04-17
NUMBER OF SEQ ID NOS: 516
SOFTWARE: PatentIn version 3.1
SEQ ID NO 434
LENGTH: 601
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-09-934-455-434

Query Match 73.8% Score 31; DB 9; Length 601;
Best Local Similarity 75.0% Pred. No. 5.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 PEISALX 9
Db 43 PPEVSALK 50

RESULT 12
US-09-759-010-2
Sequence 2, Application US/09759010
Patent No. US20010034042A1
GENERAL INFORMATION:
APPLICANT: Srivastava, Pramod K.
TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
FILE REFERENCE: 8449-135
CURRENT APPLICATION NUMBER: US/09/759.010
CURRENT FILING DATE: 2001-01-12
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 653
TYPE: PRT
ORGANISM: Homo sapiens
US-09-759-010-2

Query Match 73.8% Score 31; DB 10; Length 653;
Best Local Similarity 85.7% Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 PEISALX 8
Db 142 PEISAM 148

RESULT 13
US-09-919-039-260
Sequence 260, Application US/09919039
Publication No. US20030108871A1
GENERAL INFORMATION:
APPLICANT: Kaser, Matthew R.
TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
FILE REFERENCE: PA-0035 US
CURRENT APPLICATION NUMBER: US/09/919.039
CURRENT FILING DATE: 2002-09-09
PRIOR APPLICATION NUMBER: 60/222.113
PRIOR FILING DATE: 2000-07-28
NUMBER OF SEQ ID NOS: 401
SOFTWARE: PERL Program
SEQ ID NO 260
LENGTH: 654
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Incyte ID No. US20030108871A1 2993696CD1

US-09-919-039-260

Query Match 73.8%; Score 31; DB 9; Length 654;
Best Local Similarity 85.7%; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEEISAL 8

Db 142 PEEISAM 148

Search completed: July 16, 2003, 06:57.41
Job time : 9.88636 secs

RESULT 14

US-09-919-172-54
; Sequence 54, Application US/09919172
; Patent No. US20020119463A1
; GENERAL INFORMATION:
; APPLICANT: Paris, Mary
; APPLICANT: Turner, Christopher M.
; TITLE OF INVENTION: PROSTATE CANCER MARKERS
; FILE REFERENCE: PA-0036 US
; CURRENT APPLICATION NUMBER: US/09/919,172
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/222,469
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PERL Program
; SEQ ID NO 54
; LENGTH: 654
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1
US-09-919-172-54

Query Match 73.8%; Score 31; DB 10; Length 654;
Best Local Similarity 85.7%; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEEISAL 8

Db 142 PEEISAM 148

RESULT 15

US-10-117-641-36
; Sequence 36, Application US/10117641
; Publication No. US20020194640A1
; GENERAL INFORMATION:
; APPLICANT: Mistra, Santosh et al.
; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METH
; FILE REFERENCE: 62586
; CURRENT APPLICATION NUMBER: US/10/117,641
; CURRENT FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 09/632,538
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Pseudotsuga menziesii
US-10-117-641-36

Query Match 73.8%; Score 31; DB 9; Length 655;
Best Local Similarity 85.7%; Pred. No. 6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEEISAL 8

Db 139 PEEISAM 145

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 1.65909 Seconds

(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-2

Perfect score: 42

Sequence: 1 IPEISALK 9

Scoring table: BLASTSUM62

Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2_6/ptodata/1/iaa/5A-COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/5B-COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/6A-COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/6B-COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PCtus-COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	42	100.0	9	3	US-08-898-351-2
2	33	78.6	600	6	5240706-1
3	33	78.6	1112	4	US-09-353-585-2
4	33	78.6	1112	4	US-09-353-585-3
5	32	76.2	233	3	US-08-836-236-8
6	31	73.8	46	6	5196523-8
7	31	73.8	654	1	US-08-441-139-11
8	31	73.8	655	1	US-09-632-538C-36
9	31	73.8	663	1	US-08-441-139-7
10	31	73.8	666	1	US-08-441-139-16
11	31	73.8	707	4	US-09-228-986-80
12	31	73.8	1523	4	US-09-182-024A-2
13	30	71.4	62	4	US-09-006-428A-12
14	30	71.4	239	4	US-09-306-881-4
15	30	71.4	240	1	US-08-261-822A-71
16	30	71.4	240	5	PCT-US95-0744A-71
17	30	71.4	334	1	US-08-347-826A-2
18	30	71.4	335	1	US-08-347-826A-1
19	30	71.4	572	3	US-09-040-681A-4
20	30	71.4	572	3	US-09-497-897-4
21	30	71.4	907	3	US-08-938-830-26
22	30	71.4	907	3	US-09-020-222-26
23	29	69.0	154	4	US-09-228-966-89
24	29	69.0	166	1	US-08-213-448-1
25	29	69.0	166	2	US-08-477-310A-1
26	29	69.0	166	3	US-08-912-768-1
27	29	69.0	166	4	US-09-331-260-2

28	29	69.0	166	4	US-09-397-992A-7	Sequence 7, Appl
29	29	69.0	166	4	US-09-487-792-21	Sequence 21, Appl
30	29	69.0	166	5	PCT-US95-03206-1	Sequence 1, Appl
31	29	69.0	166	6	5514567-4	Patent No. 5514567
32	29	69.0	169	4	US-08-928-941D-35	Sequence 35, Appl
33	29	69.0	169	4	US-09-280-590A-45	Sequence 45, Appl
34	29	69.0	187	1	US-08-026-758-22	Sequence 22, Appl
35	29	69.0	187	3	US-08-912-768-3	Sequence 3, Appl
36	29	69.0	187	4	US-09-206-903A-9	Sequence 9, Appl
37	29	69.0	187	4	US-08-406-030A-30	Sequence 30, Appl
38	29	69.0	187	4	US-09-202-122-9	Sequence 9, Appl
39	29	69.0	187	4	US-09-206-935-7	Sequence 7, Appl
40	29	69.0	187	4	US-09-206-936-7	Sequence 4, Appl
41	29	69.0	187	4	US-09-487-792-4	Sequence 4, Appl
42	29	69.0	187	6	5326859-1	Patent No. 5326859
43	29	69.0	187	6	5514567-1	Patent No. 5514567
44	29	69.0	258	4	US-09-134-001C-3244	Sequence 3244, Ap
45	29	69.0	303	3	US-09-002-298-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-898-351-2
Sequence 2, Application US/08898351A
Patent No. 6096867
GENERAL INFORMATION:
APPLICANT: UNILEVER UNITED STATES, INC
TITLE OF INVENTION: FROZEN FOOD PRODUCT
FILE REFERENCE: FROZEN FOOD PRODUCT
CURRENT APPLICATION NUMBER: US/08/898, 351A
CURRENT FILING DATE: 1997-07-22
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 9
TYPE: PRT
ORGANISM: CARROT ROOT
US-08-898-351-2

Query Match 100.0%; Score 42; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPEISALK 9
Db 1 IPEISALK 9
RESULT 2
5240706-1
Patent No. 5240706
APPLICANT: FAULDS, DARYL
TITLE OF INVENTION: INTRANSSAL ADMINISTRATION OF MYCOPLASMA
HYDROPHOBIC ANTIGEN
NUMBER OF SEQUENCES: 22
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/334,586
FILING DATE: 07-APR-1989
SEQ ID NO. 1:
LENGTH: 600
5240706-1

Query Match 78.6%; Score 33; DB 6; Length 600;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPEISA 7
Db 87 IPEISA 93

RESULT 3
US-09-353-585-2
Sequence 2, Application US/09353585
Patent No. 6287865
GENERAL INFORMATION:
APPLICANT: Dixon, Mark S
Jones, David A.
Jones, Jonathan DG
TITLE OF INVENTION: Plant pathogen resistance genes and uses
thereof
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6287865th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/353,585
FILING DATE: 15-Jul-1999
CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q
1/68
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/930,277
FILING DATE: 27-OCT-1997
APPLICATION NUMBER: PCT/GB96/00785
FILING DATE: 01-APR-1996
APPLICATION NUMBER: GB 9506658.5
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ms Mary J Wilson
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 620-69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1112 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Tomato
STRAIN: Cf2
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-353-585-2
Query Match 78.6%; Score 33; DB 4; Length 1112;
Best Local Similarity 77.8%; Pred. No. 3e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 IPEISALK 9
Db 207 IPEISYLR 215
RESULT 4
US-09-353-585-3
Sequence 3, Application US/09353585
Patent No. 6287865
GENERAL INFORMATION:
APPLICANT: Dixon, Mark S
Jones, David A
Jones, Jonathan DG

TITLE OF INVENTION: Plant pathogen resistance genes and uses
thereof
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6287865th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/353,585
FILING DATE: 15-Jul-1999
CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q
1/68
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/930,277
FILING DATE: 27-OCT-1997
APPLICATION NUMBER: PCT/GB96/00785
FILING DATE: 01-APR-1996
APPLICATION NUMBER: GB 9506658.5
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ms Mary J Wilson
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 620-69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1112 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Tomato
STRAIN: Cf2
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-353-585-3
Query Match 78.6%; Score 33; DB 4; Length 1112;
Best Local Similarity 77.8%; Pred. No. 3e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 IPEISALK 9
Db 207 IPEISYLR 215
RESULT 5
US-08-836-236-8
Sequence 8, Application US/08836236
Patent No. 6103484
GENERAL INFORMATION:
APPLICANT: CARLOW, CLOTTIDE K.S.
PERLER, FRANCES B.
APPLICANT: HONG, XIQIANG
APPLICANT: MEJIA, JHON S.
TITLE OF INVENTION: NOVEL PROTEIN FROM DIROFILARIA IMMITIS
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: NEW ENGLAND BIOLABS, INC.
STREET: 32 TOZER ROAD
CITY: BEVERLY

STATE: MASSACHUSETTS
COUNTRY: US
ZIP: 01915
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,236
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/420,976
FILING DATE: 10-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: WILLIAMS, GREGORY D.
REGISTRATION NUMBER: 30901
REFERENCE/DOCKET NUMBER: NEB-112C-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508) 927-5054
TELEFAX: (508) 927-1705
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 233 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-836-236-8

Query Match 76.2%; Score 32; DB 3; Length 233;
Best Local Similarity 66.7%; Pred. No. 89;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 IPEISALK 9
Db 153 IPEVKEIK 161

RESULT 6
5196523-8
Patent No. 5196523
APPLICANT: LEE, AMY S.
TITLE OF INVENTION: CONTROL OF GENE EXPRESSION BY GLUCOSE,
CALCIUM AND TEMPERATURE
NUMBER OF SEQUENCES: 28
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/354,988
FILING DATE: 19-MAY-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 282,880
FILING DATE: 05-DEC-1988
APPLICATION NUMBER: 690,951
FILING DATE: 01-JAN-1985
SEQ ID NO: 8:
LENGTH: 46
5196523-8

Query Match 73.8%; Score 31; DB 6; Length 46;
Best Local Similarity 85.7%; Pred. No. 25;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 8
Db 24 PEISAM 30

RESULT 7
US-08-441-139-11
Sequence 11, Application US/08441139
Patent No. 5773245
GENERAL INFORMATION:

APPLICANT: Wiltup, Dr. Karl D.
APPLICANT: Robinson, Anne S.
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: NY
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,139
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DIGILIO, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 654 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-11

Query Match 73.8%; Score 31; DB 1; Length 654;
Best Local Similarity 85.7%; Pred. No. 4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 8
Db 142 PEISAM 148

RESULT 8
US-09-632-538C-36
Sequence 36 Application US/09632538C
Patent No. 6440674
GENERAL INFORMATION:
APPLICANT: Misra, Santosh et al.
TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METH
FILE REFERENCE: 54359
CURRENT APPLICATION NUMBER: US/09/632,538C
CURRENT FILING DATE: 2000-08-04
NUMBER OF SEQ ID NOS: 37
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 36
LENGTH: 655
TYPE: PRT
ORGANISM: Pseudotsuga menziesii
US-09-632-538C-36

Query Match 73.8%; Score 31; DB 4; Length 655;
Best Local Similarity 85.7%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 8
Db 139 PEISAM 145

RESULT 9

US-08-441-139-7
Sequence 7, Application US/08441139
Patent No. 577245
GENERAL INFORMATION:
APPLICANT: Wiltup, Dr. Karl D.
APPLICANT: Robinson, Anne S.
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: NY
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.139
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Digilio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 663 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-7

Query Match 73.8%; Score 31; DB 1; Length 663;
Best Local Similarity 85.7%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 8
Db 147 PEISAM 153

RESULT 10

US-08-441-139-16
Sequence 16, Application US/08441139
Patent No. 577245
GENERAL INFORMATION:
APPLICANT: Wiltup, Dr. Karl D.
APPLICANT: Robinson, Anne S.
TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City

STATE: NY
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.139
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Digilio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 666 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-16

Query Match 73.8%; Score 31; DB 1; Length 666;
Best Local Similarity 85.7%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 8
Db 154 PEISAM 160

RESULT 11
US-09-228-986-80
Sequence 80, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Neuenhuizen, Niels
TITLE OF INVENTION: Compositions Isolated from Plant Cells
FILE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
CURRENT APPLICATION NUMBER: US/09/228,986
FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 80
LENGTH: 707
TYPE: PRT
ORGANISM: Pinus radiata
US-09-228-986-80

Query Match 73.8%; Score 31; DB 4; Length 707;
Best Local Similarity 62.5%; Pred. No. 4.4e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 2 PEISAL 9
Db 29 PDVSAUK 36

RESULT 12
US-09-182-024A-2
Sequence 2, Application US/09182024A

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; Patent No. 6342370
; GENERAL INFORMATION:
; APPLICANT: Connolly, Timothy
; APPLICANT: Rajput, Bhanu
; TITLE OF INVENTION: Human Silt Polypeptide and Polynucleotides Encoding
; FILE REFERENCE: 640100-271
; CURRENT APPLICATION NUMBER: US/09/182,024A
; PRIOR FILING DATE: 1998-10-29
; PRIOR APPLICATION NUMBER: 60/063,946
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/096,420
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 2
; LENGTH: 1523
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-182-024A-2

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Query Match
Best Local Similarity 73.8%; Score 31; DB 4; Length 1523;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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QY 1 IPEISALK 9
Db 767 VPELSALK 775

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RESULT 13
US-09-006-428A-12
; Sequence 12, Application US/09006428A
; Patent No. 644439
; GENERAL INFORMATION:
; APPLICANT: Jing Li
; APPLICANT: Kazuhisa Nishizawa
; APPLICANT: Mengdan An
; APPLICANT: Ellis L. Reinherz
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF A
; FILE REFERENCE: 1062.1020-000
; CURRENT APPLICATION NUMBER: US/09/006,428A
; CURRENT FILING DATE: 1998-01-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 12
; LENGTH: 62
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-006-428A-12

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Query Match
Best Local Similarity 71.4%; Score 30; DB 4; Length 62;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 1 IPEISALK 9
Db 16 IPEISALK 24

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RESULT 14
US-09-306-881-4
; Sequence 4, Application US/09306881A
; Patent No. 6133008
; GENERAL INFORMATION:
; APPLICANT: HSIEH, Pei-chung
; APPLICANT: XU, Shuang-yong
; TITLE OF INVENTION: METHOD FOR CLONING AND PRODUCING THE TFII RESTRICTION
; FILE REFERENCE: NEB-159
; CURRENT APPLICATION NUMBER: US/09/306,881A
; CURRENT FILING DATE: 1999-05-07

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; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 4
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Thermus filiformis
US-09-306-881-4

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Query Match
Best Local Similarity 71.4%; Score 30; DB 4; Length 239;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 1 IPEISALK 9
Db 140 IPEISALK 148

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RESULT 15
US-08-261-822A-71
; Sequence 71, Application US/08261822A
; Patent No. 5650553
; GENERAL INFORMATION:
; APPLICANT: Eckert, Joseph R. et al.
; TITLE OF INVENTION: Plant Genes for Sensitivity to Ethylene
; NUMBER OF SEQUENCES: 82
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5650553ris
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/261,822A
; FILING DATE: 17-JUN-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Beardell, Lori Y.
; REGISTRATION NUMBER: 34,293
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 240 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
US-08-261-822A-71

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Query Match
Best Local Similarity 71.4%; Score 30; DB 1; Length 240;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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QY 2 PDEISALK 9
Db 41 PDEISALK 48

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Search completed: July 16, 2003, 06:59:03
Job time: 2.65909 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 9.87374 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-3
Perfect score: 45
Sequence: 1 LTXDLSPFK 10

Scoring table:
BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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- 2: /cgn2_6/ptodata/2/pubpaa/PC7_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/PC7US_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
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- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	44	97.8	345	US-10-128-714-3396	Sequence 3396, Ap
2	44	97.8	356	US-10-128-714-8396	Sequence 8396, Ap
3	40	88.9	947	US-10-101-464A-73	Sequence 73, Appl
4	38	84.4	180	US-09-895-298-73	Sequence 73, Appl
5	38	84.4	194	US-10-101-464A-668	Sequence 68, App
6	38	84.4	677	US-10-101-464A-891	Sequence 891, App
7	38	84.4	968	US-10-101-464A-76	Sequence 76, Appl
8	38	84.4	1399	US-09-388-221-4	Sequence 4, Appl
9	38	84.4	1429	US-09-388-221-12	Sequence 12, Appl
10	38	84.4	1429	US-10-028-392-11	Sequence 11, Appl
11	38	84.4	1429	US-09-996-617-2	Sequence 2, Appl
12	38	84.4	1429	US-09-931-071-2	Sequence 2, Appl
13	38	84.4	1443	US-09-388-221-6	Sequence 6, Appl
14	38	84.4	1454	US-09-388-221-10	Sequence 10, Appl
15	38	84.4	1473	US-09-388-221-2	Sequence 2, Appl
16	37	82.2	109	US-10-101-464A-685	Sequence 685, App
17	37	82.2	290	US-10-068-426-10	Sequence 10, Appl
18	37	82.2	290	US-10-068-426-11	Sequence 11, Appl
19	37	82.2	290	US-10-068-426-12	Sequence 12, Appl

20	37	82.2	301	US-10-068-426-9	Sequence 9, Appl
21	37	82.2	302	US-10-068-426-7	Sequence 7, Appl
22	37	82.2	302	US-10-068-426-8	Sequence 8, Appl
23	37	82.2	531	US-10-068-426-4	Sequence 4, Appl
24	37	82.2	531	US-10-068-426-5	Sequence 5, Appl
25	37	82.2	531	US-10-068-426-6	Sequence 6, Appl
26	37	82.2	544	US-10-068-426-1	Sequence 1, Appl
27	37	82.2	544	US-10-068-426-2	Sequence 2, Appl
28	37	82.2	544	US-10-068-426-3	Sequence 3, Appl
29	37	82.2	697	US-10-101-464A-940	Sequence 940, App
30	37	82.2	1166	US-10-101-464A-900	Sequence 900, App
31	36	80.0	655	US-10-101-464A-70	Sequence 70, Appl
32	35	77.8	132	US-10-101-464A-572	Sequence 572, App
33	35	77.8	338	US-10-171-311-119	Sequence 119, App
34	35	77.8	353	US-10-106-698-4655	Sequence 4655, App
35	35	77.8	353	US-09-925-301-980	Sequence 980, App
36	35	77.8	493	US-10-004-415-4	Sequence 4, Appl
37	35	77.8	707	US-10-101-464A-80	Sequence 80, Appl
38	35	77.8	904	US-09-950-041-6	Sequence 6, Appl
39	35	77.8	998	US-10-101-464A-914	Sequence 914, App
40	35	77.8	1504	US-09-932-145-7	Sequence 7, Appl
41	34	75.6	183	US-10-101-464A-757	Sequence 757, App
42	34	75.6	333	US-10-101-464A-561	Sequence 561, App
43	34	75.6	590	US-10-227-884-70	Sequence 70, Appl
44	34	75.6	590	US-10-230-163-70	Sequence 70, Appl
45	34	75.6	590	US-10-218-631-70	Sequence 70, Appl

ALIGNMENTS

RESULT 1
US-10-128-714-3396
Sequence 3396, Application US/10128714
Publication No. US20030119013A1
GENERAL INFORMATION:
APPLICANT: Hu, Wengqi
APPLICANT: Tishkoff, Daniel
APPLICANT: Zamudio, Carlos
APPLICANT: Eroshtkin, Alexey M
APPLICANT: Lemieux, Sebastien M
TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
FILE REFERENCE: 10182-018-999
CURRENT APPLICATION NUMBER: US/10/128,714
PRIOR APPLICATION NUMBER: US 60/285,697
PRIOR FILING DATE: 2001-04-23
PRIOR APPLICATION NUMBER: US 60/287,066
PRIOR FILING DATE: 2001-04-27
PRIOR APPLICATION NUMBER: US 60/295,890
PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: US 60/303,899
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: US 60/316,362
PRIOR FILING DATE: 2001-08-31
NUMBER OF SEQ ID NOS: 8603
SOFTWARE: Patent version 3.1
SEQ ID NO 3396
LENGTH: 345
TYPE: PRT
ORGANISM: Aspergillus fumigatus
US-10-128-714-3396
Query Match 97.8%; Score 44; DB 9; Length 345;
Best Local Similarity 90.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
DB 113 LTXDLSPFK 122

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RESULT 2
US-10-128-714-8396
; Sequence 8396, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengji
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8396
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
US-10-128-714-8396

Query Match      97.8%; Score 44; DB 9; Length 356;
Best Local Similarity 90.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXLDLSFNK 10
      |||||||
      124 LTXLDLSFNK 133

RESULT 3
US-10-101-464A-73
; Sequence 73, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 947
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-73
```

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Query Match      88.9%; Score 40; DB 9; Length 947;
Best Local Similarity 80.0%; Pred. No. 4.8;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXLDLSFNK 10
      |||||||
      211 LTXLDLSFNK 220

RESULT 4
US-09-895-298-73
; Sequence 73, Application US/09895298
; Publication No. US20030078405A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 47 Human Secreted Proteins
; FILE REFERENCE: P2035P1
; CURRENT APPLICATION NUMBER: US/09/895,298
; CURRENT FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: 09/591,16
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: PCT/US99/29950
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: 60/113,006
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/112,809
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 73
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-895-298-73

Query Match      84.4%; Score 38; DB 9; Length 180;
Best Local Similarity 88.9%; Pred. No. 2;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXLDLSFN 9
      |||||||
      85 LTXLDLSFN 93

RESULT 5
US-10-101-464A-668
; Sequence 668, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 668
; LENGTH: 194
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-668
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Query Match 84.4%; Score 38; DB 9; Length 194;
Best Local Similarity 88.9%; Pred. No. 2.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 9
|||
Db 185 LTRLDLSFN 193

RESULT 6
US-10-101-464A-891
; Sequence 891, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 891
; LENGTH: 677
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-891

Query Match 84.4%; Score 38; DB 9; Length 677;
Best Local Similarity 88.9%; Pred. No. 8.6;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 9
|||
Db 185 LTRLDLSFN 193

RESULT 7
US-10-101-464A-76
; Sequence 76, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 968
; TYPE: PRT

; ORGANISM: Eucalyptus grandis
US-10-101-464A-76

Query Match 84.4%; Score 38; DB 9; Length 968;
Best Local Similarity 80.0%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 10
|||
Db 96 LRSIDLDSFN 105

RESULT 8
US-09-388-221-4
; Sequence 4, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: No. US20020192643A1e1 Card Proteins Involved in Cell Death Regul.
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 1399
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-388-221-4

Query Match 84.4%; Score 38; DB 9; Length 1399;
Best Local Similarity 88.9%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 9
|||
Db 867 LTRLDLSFN 875

RESULT 9
US-09-388-221-12
; Sequence 12, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: No. US20020192643A1e1 Card Proteins Involved in Cell Death Regul.
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 1424
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-388-221-12

Query Match 84.4%; Score 38; DB 9; Length 1424;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLDSFN 9
|||
Db 867 LTRLDLSFN 875

RESULT 10
US-10-028-392-11
; Sequence 11, Application US/10028392
; Publication No. US20030087340A1
; GENERAL INFORMATION:

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; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: A NOVEL HUMAN LECTINE-RICH REPEAT CONTAINING PROTEIN EXPRESSED
; FILE REFERENCE: D0085.mp
; CURRENT APPLICATION NUMBER: US/10/028,392
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: US 60/259,479
; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: US 60/260,616
; PRIOR FILING DATE: 2001-01-09
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11
; LENGTH: 1429
; TYPE: PRT
; ORGANISM: homo sapiens
; US-10-028-392-11

Query Match      84.4%; Score 38; DB 9; Length 1429;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXDLDFN 9
        |||||||
Db      867 LTELDFSN 875

RESULT 11
US-09-996-617-2
; Sequence 2, Application US/09996617
; Patent No. US20020128198A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
; FILE REFERENCE: 07334-340001
; CURRENT APPLICATION NUMBER: US/09/996,617
; CURRENT FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: 09/931,071
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 09/428,252
; PRIOR FILING DATE: 1999-10-27
; PRIOR APPLICATION NUMBER: 09/340,620
; PRIOR FILING DATE: 1999-06-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1429
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-996-617-2

Query Match      84.4%; Score 38; DB 10; Length 1429;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXDLDFN 9
        |||||||
Db      867 LTELDFSN 875

RESULT 12
US-09-931-071-2
; Sequence 2, Application US/09931071
; Patent No. US20020128219A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; APPLICANT: Alnemri, Ead S.
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
; FILE REFERENCE: 07334-335001
; CURRENT APPLICATION NUMBER: US/09/931,071
; CURRENT FILING DATE: 2002-03-18

; PRIOR APPLICATION NUMBER: 09/428,252
; PRIOR FILING DATE: 1999-10-27
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1429
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-931-071-2

Query Match      84.4%; Score 38; DB 10; Length 1429;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXDLDFN 9
        |||||||
Db      867 LTELDFSN 875

RESULT 13
US-09-388-221-6
; Sequence 6, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: NO. US20020192643A1e1 Card Proteins Involved in Cell Death Regu;
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1443
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-388-221-6

Query Match      84.4%; Score 38; DB 9; Length 1443;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXDLDFN 9
        |||||||
Db      867 LTELDFSN 875

RESULT 14
US-09-388-221-10
; Sequence 10, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: NO. US20020192643A1e1 Card Proteins Involved in Cell Death Regu;
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1454
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; US-09-388-221-10

Query Match      84.4%; Score 38; DB 9; Length 1454;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXDLDFN 9
        |||||||
Db      867 LTELDFSN 875
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RESULT 15
US-09-388-221-2
; Sequence 2, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: No. US20020192643A1e1 Card Proteins Involved in Cell Death Regul
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1473
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-388-221-2

Query Match      84.4% Score 38; DB 9; Length 1473;
Best Local Similarity 88.9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 LTXLDLSFN 9
      |||||
Db      867 LTXLDLSFN 875
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Job time : 9.87374 secs

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:01 ; Search time 24.5707 Seconds

(without alignments)
262.359 Million cell updates/sec

Title: US-09-308-140-3

Perfect score: 45

Sequence: 1 LTXLDLSEFNK 10

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	44	97.8	123	US-09-417-507-28742	Sequence 28742, A
2	44	97.8	295	US-60-360-039-3696	Sequence 3696, A
3	44	97.8	338	US-09-791-537-6552	Sequence 6552, A
4	44	97.8	345	PCT-US02-13142-3396	Sequence 3396, Ap
5	44	97.8	345	US-10-128-714-3396	Sequence 3396, Ap
6	44	97.8	345	US-60-316-362-3396	Sequence 3396, Ap

7	44	97.8	356	PCT-US02-13142-8396	Sequence 8396, Ap
8	44	97.8	356	US-10-128-714-8396	Sequence 8396, Ap
9	43	95.6	10	US-09-308-140-3	Sequence 3, Appl
10	42	93.3	197	US-09-308-140-12	Sequence 12, Appl
11	42	93.3	332	US-09-308-140-7	Sequence 7, Appl
12	42	93.3	332	US-09-791-537-427	Sequence 427, App
13	41	91.1	857	US-09-791-537-59074	Sequence 59074, A
14	40	88.9	107	US-60-140-802-74	Sequence 74, Appl
15	40	88.9	107	US-60-142-787-101	Sequence 101, App
16	40	88.9	107	US-60-143-873-215	Sequence 215, App
17	40	88.9	305	US-09-248-796-18996	Sequence 46, Appl
18	40	88.9	305	US-09-248-796-18996	Sequence 18996, A
19	40	88.9	305	US-09-248-796-18996	Sequence 18996, A
20	40	88.9	374	PCT-US02-03987-15529	Sequence 15529, A
21	40	88.9	374	US-10-032-585-7585	Sequence 7585, Ap
22	40	88.9	374	US-10-072-851-15529	Sequence 15529, A
23	40	88.9	374	US-60-259-128-4892	Sequence 4892, Ap
24	40	88.9	374	US-60-314-050-7585	Sequence 7585, Ap
25	40	88.9	364	US-10-179-131-7829	Sequence 7829, Ap
26	40	88.9	600	US-09-614-150-37419	Sequence 37419, A
27	40	88.9	600	US-60-191-637-37033	Sequence 37033, A
28	40	88.9	886	PCT-US99-22855-677	Sequence 677, App
29	40	88.9	886	US-09-451-320-513	Sequence 513, App
30	40	88.9	947	PCT-US00-00724-73	Sequence 73, Appl
31	40	88.9	947	US-09-704-3024-73	Sequence 73, Appl
32	40	88.9	947	US-10-101-4644-73	Sequence 73, Appl
33	40	88.9	947	US-60-162-866-73	Sequence 73, Appl
34	40	88.9	957	US-09-791-537-13736	Sequence 13736, A
35	39	86.7	324	US-09-791-537-106949	Sequence 106949, A
36	39	86.7	325	US-09-513-996A-26412	Sequence 26412, A
37	39	86.7	325	US-09-620-394B-3008	Sequence 3908, Ap
38	39	86.7	325	US-09-935-625-14165	Sequence 14165, A
39	39	86.7	325	US-09-935-625-14165	Sequence 14165, A
40	39	86.7	329	US-09-791-537-14251	Sequence 14251, A
41	39	86.7	346	US-09-935-625-14164	Sequence 66558, A
42	39	86.7	430	US-10-219-999-43183	Sequence 43183, A
43	39	86.7	430	US-60-312-544-6902	Sequence 6902, Ap
44	39	86.7	732	PCT-US99-22855B-1959	Sequence 1959, Ap
45	39	86.7	751	PCT-US99-22855B-1958	Sequence 1958, Ap

ALIGNMENTS

US-09-417-507-28742
; Sequence 28742, Application US/09417507
; GENERAL INFORMATION:
; APPLICANT: KEITH G. WEINSTOCK ET AL.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ASPERGILLUS
; FILE REFERENCE: PATH99-10
; CURRENT APPLICATION NUMBER: US/09/417,507
; NUMBER OF SEQ ID NOS: 14
; SEQ ID NO 28742
; LENGTH: 123
; TYPE: PRT
; ORGANISM: A. fumigatus
US-09-417-507-28742

Query Match 97.8%; Score 44; DB 18; Length 123;
Best Local Similarity 90.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSEFNK 10
DB 44 LTXLDLSEFNK 53
RESULT 2
US-60-360-039-3696
; Sequence 3696, Application US/60360039

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; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Chen, Xianteng
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52053)A
; CURRENT APPLICATION NUMBER: US/60/360,039
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3696
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-60-360-039-3696

Query Match
Best Local Similarity 97.8%; Score 44; DB 27; Length 295;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXLDLSFNK 10
DB 80 LTSLDLSFNK 89

RESULT 3
US-09-791-537-6552
; Sequence 6552, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Biomomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6552
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-791-537-6552

Query Match
Best Local Similarity 97.8%; Score 44; DB 21; Length 338;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXLDLSFNK 10
DB 115 LTSLDLSFNK 124

RESULT 4
PCT-US02-13142-3396
; Sequence 3396, Application PC/TUS0213142
; GENERAL INFORMATION:
; APPLICANT: Elittra Pharmaceuticals, Inc.
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-228
; CURRENT APPLICATION NUMBER: PCT/US02/13142
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
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; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3396
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
PCT-US02-13142-3396

Query Match
Best Local Similarity 97.8%; Score 44; DB 1; Length 345;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXLDLSFNK 10
DB 113 LTSLDLSFNK 122

RESULT 5
US-10-128-714-3396
; Sequence 3396, Application US/10128714
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Weng
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshtkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3396
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
US-10-128-714-3396

Query Match
Best Local Similarity 97.8%; Score 44; DB 25; Length 345;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXLDLSFNK 10
DB 113 LTSLDLSFNK 122

RESULT 6
US-60-316-362-3396
; Sequence 3396, Application US/60316362
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshtkin, Alexey M.
; TITLE OF INVENTION: Identification of Essential Genes of Aspergillus fumigatus and Mei
; FILE REFERENCE: 10182-012-888
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; CURRENT APPLICATION NUMBER: US/60/316,362
; CURRENT FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 4037
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3396
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
US-60-316-362-3396
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Query Match          97.8%; Score 44; DB 27; Length 345;
Best Local Similarity 90.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1 LTXLDLSPNK 10
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Db       113 LTXLDLSPNK 122
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RESULT 7

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; PCT-US02-13142-8396
; Sequence 8396, Application PC/TUS0213142
; GENERAL INFORMATION:
; APPLICANT: Elitra Pharmaceuticals, Inc.
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-228
; CURRENT APPLICATION NUMBER: PCT/US02/13142
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8396
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
PCT-US02-13142-8396
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Query Match          97.8%; Score 44; DB 1; Length 356;
Best Local Similarity 90.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1 LTXLDLSPNK 10
        |||||||
Db       124 LTXLDLSPNK 133
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RESULT 8

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; US-10-128-714-8396
; Sequence 8396, Application US/10128714
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshtkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
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; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8396
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Aspergillus fumigatus
US-10-128-714-8396
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Query Match          97.8%; Score 44; DB 25; Length 356;
Best Local Similarity 90.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY      1 LTXLDLSPNK 10
        |||||||
Db       124 LTXLDLSPNK 133
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RESULT 9

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; US-09-308-140-3
; Sequence 3, Application US/09308140
; GENERAL INFORMATION:
; APPLICANT: BYASS, LOUISE J.
; APPLICANT: DOUCET, CHARLOTTE J.
; TITLE OF INVENTION: CARROT ANTIFREEZE POLYPEPTIDES
; FILE REFERENCE: F7371(C)
; CURRENT APPLICATION NUMBER: US/09/308,140
; CURRENT FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: PCT/EP97/06181
; PRIOR FILING DATE: 1997-11-06
; PRIOR APPLICATION NUMBER: EP 96308362.1
; PRIOR FILING DATE: 1996-11-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Daucus carota
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (3)
; OTHER INFORMATION: any, other or unknown amino acid
US-09-308-140-3
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Query Match          95.6%; Score 43; DB 17; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 LTXLDLSPNK 10
        |||||||
Db       1 LTXLDLSPNK 10
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RESULT 10

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; US-09-308-140-12
; Sequence 12, Application US/09308140
; GENERAL INFORMATION:
; APPLICANT: BYASS, LOUISE J.
; APPLICANT: DOUCET, CHARLOTTE J.
; TITLE OF INVENTION: CARROT ANTIFREEZE POLYPEPTIDES
; FILE REFERENCE: F7371(C)
; CURRENT APPLICATION NUMBER: US/09/308,140
; CURRENT FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: PCT/EP97/06181
; PRIOR FILING DATE: 1997-11-06
; PRIOR APPLICATION NUMBER: EP 96308362.1
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PRIOR FILING DATE: 1996-11-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 12
; LENGTH: 197
; TYPE: PRT
; ORGANISM: Daucus carota
US-09-308-140-12

Query Match
Best Local Similarity 93.3%; Score 42; DB 17; Length 197;
Best Local Similarity 90.0%; Pred. No. 4.5;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSPNK 10
DB 13 LTCLDLSFNK 22

RESULT 11
US-09-308-140-7
; Sequence 7, Application US/09308140
; GENERAL INFORMATION:
; APPLICANT: BYASS, LOUISE J.
; APPLICANT: DOUCET, CHARLOTTE J.
; TITLE OF INVENTION: CARROT ANTIFREEZE POLYPEPTIDES
; FILE REFERENCE: F7371(C)
; CURRENT APPLICATION NUMBER: US/09/308,140
; CURRENT FILING DATE: 1999-12-30
; PRIOR APPLICATION NUMBER: PCT/EP97/06181
; PRIOR FILING DATE: 1997-11-06
; PRIOR APPLICATION NUMBER: EP 96308362.1
; PRIOR FILING DATE: 1996-11-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 7
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Daucus carota
US-09-308-140-7

Query Match
Best Local Similarity 93.3%; Score 42; DB 17; Length 332;
Best Local Similarity 90.0%; Pred. No. 7.9;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSPNK 10
DB 148 LTCLDLSFNK 157

RESULT 12
US-09-791-537-427
; Sequence 427, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 427
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Daucus carota
US-09-791-537-427

Query Match
Best Local Similarity 93.3%; Score 42; DB 21; Length 332;
Best Local Similarity 90.0%; Pred. No. 7.9;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSPNK 10
DB 148 LTCLDLSFNK 157

RESULT 13
US-09-791-537-59074
; Sequence 59074, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 59074
; LENGTH: 857
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-791-537-59074

Query Match
Best Local Similarity 91.1%; Score 41; DB 21; Length 857;
Best Local Similarity 80.0%; Pred. No. 35;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSPNK 10
DB 293 LTDLSPNK 302

RESULT 14
US-60-140-802-74
; Sequence 74, Application US/60140802
; GENERAL INFORMATION:
; APPLICANT: Kerlavage, Anthony
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; FILE REFERENCE: CLO00039
; CURRENT APPLICATION NUMBER: US/60/140,802
; CURRENT FILING DATE: 1999-06-25
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 74
; LENGTH: 79
; TYPE: PRT
; ORGANISM: Drosophila
US-60-140-802-74

Query Match
Best Local Similarity 88.9%; Score 40; DB 27; Length 79;
Best Local Similarity 80.0%; Pred. No. 4.4;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSPNK 10
DB 24 LTFLDLSFNK 33

RESULT 15
US-60-142-787-101
; Sequence 101, Application US/60142787
; GENERAL INFORMATION:
; APPLICANT: Kerlavage, Anthony
; TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
; FILE REFERENCE: CLO00050
; CURRENT APPLICATION NUMBER: US/60/142,787
; CURRENT FILING DATE: 1999-07-08

NUMBER OF SEQ ID NOS: 106
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 101
LENGTH: 107
TYPE: PRT
ORGANISM: Drosophila
US-60-142-787-101

Query Match 88.9%; Score 40; DB 27; Length 107;
Best Local Similarity 80.0%; Pred. No. 6.1;
Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXDLSFNK 10
|||
Db 70 LTFDLSTYK 79

Search completed: July 16, 2003, 07:29:24
Job time : 26.5707 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 1.84343 Seconds

(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-3

Perfect score: 45

Sequence: 1 LTXDLSPNK 10

Scoring table: BLOSUM62

Searched: Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patente AA.*
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2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PTCUS.COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	43	95.6	10	3	US-08-898-351-3
2	40	88.9	947	4	US-09-228-986-73
3	39	86.7	523	2	US-08-473-553A-3
4	39	86.7	980	2	US-08-473-553A-6
5	39	86.7	985	2	US-08-473-553A-2
6	38	84.4	330	1	US-08-238-163-2
7	38	84.4	968	4	US-09-228-986-76
8	37	82.2	34	3	US-08-658-136-35
9	37	82.2	320	1	US-07-613-083B-1
10	37	82.2	610	1	US-07-821-717B-6
11	37	82.2	610	1	US-08-119-262B-6
12	37	82.2	610	1	US-08-135-929A-11
13	37	82.2	610	1	US-08-234-265A-11
14	36	80.0	220	1	US-07-991-867B-11
15	36	80.0	220	1	US-08-107-755A-11
16	36	80.0	220	4	US-09-544-333-11
17	36	80.0	220	4	US-09-370-861A-11
18	36	80.0	655	4	US-09-228-986-70
19	35	77.8	707	4	US-09-228-986-80
20	34	75.6	301	4	US-09-353-585-5
21	34	75.6	644	4	US-08-866-757-2
22	34	75.6	644	4	US-09-153-593-2
23	34	75.6	799	4	US-09-180-439-6
24	34	75.6	910	4	US-09-228-986-72
25	34	75.6	968	4	US-09-180-439-3
26	34	75.6	968	4	US-09-180-439-4
27	34	75.6	1016	4	US-09-180-439-8

28	34	75.6	1112	4	US-09-353-585-2	Sequence 2, Appli
29	34	75.6	1112	4	US-09-353-585-3	Sequence 3, Appli
30	33	73.3	313	3	US-08-985-315-8	Sequence 8, Appli
31	33	73.3	313	4	US-09-410-372-8	Sequence 9, Appli
32	33	73.3	366	3	US-08-746-883-6	Sequence 6, Appli
33	33	73.3	440	3	US-08-985-315-3	Sequence 3, Appli
34	33	73.3	440	4	US-09-410-372-3	Sequence 4, Appli
35	33	73.3	735	3	US-09-191-647-9	Sequence 9, Appli
36	33	73.3	735	4	US-09-540-245A-9	Sequence 9, Appli
37	33	73.3	735	4	US-09-540-153-9	Sequence 9, Appli
38	33	73.3	1012	2	US-08-475-891A-4	Sequence 4, Appli
39	33	73.3	1023	2	US-08-475-891A-2	Sequence 2, Appli
40	33	73.3	1023	2	US-08-567-375-2	Sequence 2, Appli
41	33	73.3	1023	2	US-08-567-375-4	Sequence 2, Appli
42	33	73.3	1025	2	US-08-567-375-4	Sequence 4, Appli
43	33	73.3	1025	2	US-08-567-680A-4	Sequence 4, Appli
44	33	73.3	1196	4	US-08-881-706-2	Sequence 2, Appli
45	32	71.1	154	4	US-09-228-986-99	Sequence 99, Appli

ALIGNMENTS

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RESULT 1
US-08-898-351-3
; Sequence 3, Application US/08898351A
; Patent No. 6096867
; GENERAL INFORMATION:
; APPLICANT: UNILEVER UNITED STATES, INC
; TITLE OF INVENTION: FROZEN FOOD PRODUCT
; FILE REFERENCE: FROZEN FOOD PRODUCT
; CURRENT APPLICATION NUMBER: US/08/898,351A
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 10
; TYPE: PRT
; ORGANISM: CARROT ROOT
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (3)
; OTHER INFORMATION: Xaa represents any amino acid in plant protein
US-08-898-351-3
Query Match          95.6%; Score 43; DB 3; Length 10;
Best Local Similarity 100.0%; Pred.No. 0.0042;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 LTXDLSPNK 10
Db      1 LTXDLSPNK 10
|||||
|
RESULT 2
US-09-228-986-73
; Sequence 73, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions isolated from plant cells
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 73
; LENGTH: 947
; TYPE: PRT
; ORGANISM: Pinus radiata
US-09-228-986-73
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Query Match 88.9%; Score 40; DB 4; Length 947;
 Best Local Similarity 80.0%; Pred. No. 2.3;
 Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXDLSPFN 10
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 211 LTYDLSPFN 220

Db 509 LTXDLSPFN 517

RESULT 3
 US-08-473-553A-3
 ; Sequence 3, Application US/08473553A
 ; Patent No. 5859338
 ; GENERAL INFORMATION:
 ; APPLICANT: Meyerowitz, Elliot M.
 ; APPLICANT: Clark, Steven E.
 ; APPLICANT: Williams, Robert W.
 ; TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
 ; TITLE OF INVENTION: Transformed Plants, and Proteins
 ; NUMBER OF SEQUENCES: 11
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Flehr, Hohnbach, Test, Albritton & Herbert
 ; STREET: Four Embarcadero Center, Suite 3400
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: United States
 ; ZIP: 94111-4187
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/473.553A
 ; FILING DATE: 06-JUN-1995
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Silva, Robin M.
 ; REGISTRATION NUMBER: 38,304
 ; REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 781-1989
 ; TELEFAX: (415) 398-3249
 ; TELEX: 910 277299
 ; INFORMATION FOR SEQ ID NO: 3:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 523 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: protein
 ; US-08-473-553A-3

Query Match 86.7%; Score 39; DB 2; Length 523;
 Best Local Similarity 88.9%; Pred. No. 1.9;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXDLSPFN 9
 |||||
 509 LTYDLSPFN 517

Db 509 LTXDLSPFN 517

RESULT 4
 US-08-473-553A-6
 ; Sequence 6, Application US/08473553A
 ; Patent No. 5859338
 ; GENERAL INFORMATION:
 ; APPLICANT: Meyerowitz, Elliot M.
 ; APPLICANT: Clark, Steven E.
 ; APPLICANT: Williams, Robert W.
 ; TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
 ; TITLE OF INVENTION: Transformed Plants, and Proteins

NUMBER OF SEQUENCES: 11
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Flehr, Hohnbach, Test, Albritton & Herbert
 ; STREET: Four Embarcadero Center, Suite 3400
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: United States
 ; ZIP: 94111-4187
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/473.553A
 ; FILING DATE: 06-JUN-1995
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Silva, Robin M.
 ; REGISTRATION NUMBER: 38,304
 ; REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 781-1989
 ; TELEFAX: (415) 398-3249
 ; TELEX: 910 277299
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 980 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; MOLECULE TYPE: protein
 ; US-08-473-553A-6

Query Match 86.7%; Score 39; DB 2; Length 980;
 Best Local Similarity 88.9%; Pred. No. 3.8;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXDLSPFN 9
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 578 LTYDLSPFN 586

Db 578 LTXDLSPFN 586

RESULT 5
 US-08-473-553A-2
 ; Sequence 2, Application US/08473553A
 ; Patent No. 5859338
 ; GENERAL INFORMATION:
 ; APPLICANT: Meyerowitz, Elliot M.
 ; APPLICANT: Clark, Steven E.
 ; APPLICANT: Williams, Robert W.
 ; TITLE OF INVENTION: Plant Clavatal Nucleic Acids,
 ; TITLE OF INVENTION: Transformed Plants, and Proteins
 ; NUMBER OF SEQUENCES: 11
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Flehr, Hohnbach, Test, Albritton & Herbert
 ; STREET: Four Embarcadero Center, Suite 3400
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: United States
 ; ZIP: 94111-4187
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/473.553A
 ; FILING DATE: 06-JUN-1995
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Silva, Robin M.
 ; REGISTRATION NUMBER: 38,304

REFERENCE/DOCKET NUMBER: A-60886/RT/RMS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 985 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-473-553A-2

Query Match 86.7%; Score 39; DB 2; Length 985;
Best Local Similarity 88.9%; Pred. No. 3.8;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXLDLSFN 9
|||
583 LTXLDLSFN 591

RESULT 6

US-08-238-163-2
Sequence 2, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STOLTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
TITLE OF INVENTION: POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238,163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307F-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 330 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-2

Query Match 84.4%; Score 38; DB 1; Length 330;
Best Local Similarity 88.9%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXLDLSFN 9
|||
145 LTXLDLSFN 153

RESULT 7
US-09-228-986-76
Sequence 76, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Niels
TITLE OF INVENTION: Compositions isolated from plant cells
TITLE OF INVENTION: and their use in the modification of plant cell signalling
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228,986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 76
LENGTH: 968
TYPE: PRT
ORGANISM: Eucalyptus grandis
US-09-228-986-76

Query Match 84.4%; Score 38; DB 4; Length 968;
Best Local Similarity 80.0%; Pred. No. 6;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 LTXLDLSFNK 10
|||
DB 96 LTXLDLSFNK 105

RESULT 8

US-08-658-136-35
Sequence 35, Application US/08658136
Patent No. 6071717
GENERAL INFORMATION:
APPLICANT: KLINGER, KATHERINE W
APPLICANT: LANDES, GREGORY M
APPLICANT: BURN, TIMOTHY C
APPLICANT: CONNORS, TIMOTHY D
APPLICANT: DACKOWSKI, WILLIAM
APPLICANT: GERMINO, GREGORY
APPLICANT: QIAN, FENG
TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE GENE
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENZYME CORPORATION
STREET: ONE MOUNTAIN ROAD
CITY: FRAMINGHAM
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 01701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/658,136
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: LASSEN, ELIZABETH
REGISTRATION NUMBER: 31,845
REFERENCE/DOCKET NUMBER: GEN4-17.8
TELECOMMUNICATION INFORMATION:
TELEPHONE: 508-872-8400
TELEFAX: 508-872-5415
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 34 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-658-136-35

Query Match
Best Local Similarity 82.2%; Score 37; DB 3; Length 34;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSEFNK 10
| | | | |
Db 7 LTVLDVSEFNK 16

RESULT 9

US-07-613-083B-1
Sequence 1, Application US/07613083B
Patent No. 5340727

GENERAL INFORMATION:

APPLICANT: Ruggeri, Zaverio M.
APPLICANT: Ware, Jerry, Inventors
APPLICANT: on behalf of Scripps Clinic and Research
APPLICANT: Foundation
TITLE OF INVENTION: Gp1b' Fragments and Recombinant
TITLE OF INVENTION: DNA Expression Vectors
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Scripps Clinic and Research
ADDRESSEE: Foundation
STREET: 10666 No. 5340727th Torrey Pines Road
CITY: La Jolla
STATE: California
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette-5.25 inch, 1.2 MB
COMPUTER: AsT Bravo IBM PC comp. (386SX)
OPERATING SYSTEM: MS DOS version 3.2
SOFTWARE: WordPerfect 5.1 conv. to ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/613,083B
FILING DATE: 19911114
CLASSIFICATION: 435

PRIOR APPLICATION DATA: This appl. is a c-i-p of

APPLICATION NUMBER: U.S. 07/470,674

FILING DATE: 04-Jan-1990

ATTORNEY/AGENT INFORMATION:

NAME: Barron, Alexis

REGISTRATION NUMBER: 22,702

TELECOMMUNICATION INFORMATION:

TELEPHONE: (215) 923-4466

TELEFAX: (215) 923-2189

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 320

TYPE: AMINO ACID

STRANDEDNESS: No. 5340727 applicable

TOPOLOGY: Linear

US-07-613-083B-1

Query Match

Best Local Similarity 82.2%; Score 37; DB 1; Length 320;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSEFNK 10
| | | | |
Db 102 LTVLDVSEFNK 111

RESULT 10

US-07-821-717B-6
Sequence 6, Application US/07821717B
Patent No. 5298239

GENERAL INFORMATION:

APPLICANT: Miller, Jonathan L.

APPLICANT: Cunningham, David

APPLICANT: Lyle, Vicki A.

APPLICANT: Finch, Clara N.

TITLE OF INVENTION: MUTATIONS RENDERING PLATELET

TITLE OF INVENTION: GLYCOPROTEIN IB ALPHA LESS REACTIVE

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon, Hargrave, Devans & Doyle

STREET: Clinton Square, P.O. Box 1051

CITY: Rochester

STATE: New York

COUNTRY: USA

ZIP: 14603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/821,717B

FILING DATE: 15-JAN-1992

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Timain, Susan J.

REGISTRATION NUMBER: 34,103

REFERENCE/DOCKET NUMBER: 20884/21

TELECOMMUNICATION INFORMATION:

TELEPHONE: (716) 263-1636

TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 610 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

PUBLICATION INFORMATION:

AUTHORS: Lopez, Jose A.

AUTHORS: Chung, Dominic W.

AUTHORS: Fujikawa, Kazuo

AUTHORS: Hagen, Frederick S.

AUTHORS: Papayannopoulou, Thalia

AUTHORS: Roth, Gerald J.

TITLE: Cloning of the alpha chain of human

TITLE: platelet glycoprotein Ib: A transmembrane protein with homology

JOURNAL: Proc. Natl. Acad. Sci. U.S.A.

VOLUME: 84

PAGES: 5615-5619

DATE: AUG-1987

Query Match

Best Local Similarity 82.2%; Score 37; DB 1; Length 610;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSEFNK 10
| | | | |
Db 102 LTVLDVSEFNK 111

RESULT 10

US-07-821-717B-6
Sequence 6, Application US/07821717B
Patent No. 5298239

GENERAL INFORMATION:

APPLICANT: Miller, Jonathan L.

RESULT 11
US-08-119-262B-6
Sequence 6, Application US/08119262B
Patent No. 5632809
GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L.
APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
TITLE OF INVENTION: MUTATIONS RENDERING PLATELET
GLYCOPROTEIN IB ALPHA LESS REACTIVE
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: USA
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/119,262B
FILING DATE: 09-SEP-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/821,717
FILING DATE: 15-JAN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 20884/22
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
PUBLICATION INFORMATION:
AUTHORS: Lopez, Jose A.
AUTHORS: Chung, Dominic W.
AUTHORS: Fujikawa, Kazuo
AUTHORS: Hagen, Frederick S.
AUTHORS: Papayannopoulou, Thalia
AUTHORS: Roth, Gerald J.
TITLE: Cloning of the alpha chain of human platelet
TITLE: glycoprotein Ib: A transmembrane protein
TITLE: leucine-rich alpha-2-glycoprotein
JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
VOLUME: 84
PAGES: 5615-5619
DATE: AUG-1987
RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 610
PUBLICATION INFORMATION:
AUTHORS: Zimmermann, Theodore S.
AUTHORS: Ruggeri, Zaverio M.
AUTHORS: Houghten, Richard A.
AUTHORS: Vincete, Vincete
AUTHORS: Mohri, Hiroshi
TITLE: Proteolytic fragments and synthetic peptides
TITLE: that block the binding of von Willebrand
DOCUMENT NUMBER: EP 0 317 278 A2
FILING DATE: 16-NOV-1988

PUBLICATION DATE: 24-MAY-1989
RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 293
US-08-119-262B-6

Query Match 82.2%; Score 37; DB 1; Length 610;
Best Local Similarity 70.0%; Pred. No. 6;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSPNK 10
DB 102 LTVLDVDSFNR 111

RESULT 12
US-08-135-929A-11
Sequence 11, Application US/08135929A
Patent No. 5593959
GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L.
APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
APPLICANT: Pincus, Matthew R.
TITLE OF INVENTION: Mutations in the Gene Encoding the Alpha
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: USA
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/135,929A
FILING DATE: 14-OCT-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 20884/23
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-135-929A-11

Query Match 82.2%; Score 37; DB 1; Length 610;
Best Local Similarity 70.0%; Pred. No. 6;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSPNK 10
DB 102 LTVLDVDSFNR 111

RESULT 13
US-08-234-265A-11
Sequence 11, Application US/08234265A
Patent No. 5624817
GENERAL INFORMATION:
APPLICANT: Miller, Jonathan L.

factor to the

with homology

APPLICANT: Cunningham, David
APPLICANT: Lyle, Vicki A.
APPLICANT: Finch, Clara N.
APPLICANT: Pincus, Matthew R.
TITLE OF INVENTION: Mutations in the Gene Encoding the
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Nixon, Hargrave, Devans & Doyle
STREET: Clinton Square, P.O. Box 1051
CITY: Rochester
STATE: New York
COUNTRY: USA
ZIP: 14603
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/234,265A
FILING DATE: 28-APR-1994
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Timian, Susan J.
REGISTRATION NUMBER: 34,103
REFERENCE/DOCKET NUMBER: 20884/24
TELECOMMUNICATION INFORMATION:
TELEPHONE: (716) 263-1636
TELEFAX: (716) 263-1600
TELEX: 978450
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-234-265A-11

Query Match 82.2% Score 37; DB 1; Length 610;
Best Local Similarity 70.0%; Pred. No. 6;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXLDLSFNK 10
|||:|:
Db 102 LTVLDVSFNR 111

RESULT 14
US-07-991-867B-11
Sequence 11, Application US/07991867B
Patent No. 5476781
GENERAL INFORMATION:
APPLICANT: Moyer, Richard W. 1
APPLICANT: Hall, Richard L.
APPLICANT: Gruidl, Michael E.
TITLE OF INVENTION: No. 5476781e1 Entomopoxvirus Expression System
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESSES:
ADDRESSEE: David R. Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: FL
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/991,867B
FILING DATE: 12-DEC-1992

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO 92/14818
FILING DATE: 12-FEB-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,685
FILING DATE: 30-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657,584
FILING DATE: 19-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Saliwanchik, David R.
REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UP114.C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 220 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-991-867B-11

Query Match 80.0% Score 36; DB 1; Length 220;
Best Local Similarity 60.0%; Pred. No. 3; 2;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 LTXLDLSFNK 10
|||:|:
Db 83 ITYLDISYNK 92

RESULT 15
US-08-107-755A-11
Sequence 11, Application US/08107755A
Patent No. 5721352
GENERAL INFORMATION:
APPLICANT: Moyer, Richard W.
APPLICANT: Hall, Richard L.
APPLICANT: Gruidl, Michael E.
TITLE OF INVENTION: No. 5721352e1 Entomopoxvirus Expression System
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESSES:
ADDRESSEE: David R. Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: U.S.A.
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/107,755A
FILING DATE: 19-AUG-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/827,658
FILING DATE: 30-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657,584
FILING DATE: 19-FEB-1991
ATTORNEY/AGENT INFORMATION:
NAME: Saliwanchik, David R.
REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UP114.C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (904) 375-8100
TELEFAX: (904) 372-5800

INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 220 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-107-755A-11

Query Match 80.0%; Score 36; DB 1; Length 220;
Best Local Similarity 60.0%; Pred. No. 3.2;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LTXLDLSPNK 10
| | | | | | | | | |
Db 83 IYLDISYRK 92

Search completed: July 16, 2003, 06:59:04
Job time : 2.84343 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 21.7222 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-4
104
Perfect score: 1 SLRSLSTSLSGPVLPFPQLXK 22
Sequence:

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues
Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	50	48.1	400	9	US-10-101-464A-939
2	50	48.1	843	9	US-10-101-464A-893
3	48.5	46.6	998	9	US-10-101-464A-914
4	48	46.2	147	9	US-10-101-464A-701
5	48	46.2	383	9	US-10-101-464A-898
6	48	46.2	828	9	US-10-101-464A-934
7	47	45.2	170	9	US-10-101-464A-769
8	47	45.2	612	8	US-08-910-386A-2
9	47	45.2	623	9	US-10-101-464A-812
10	47	45.2	638	9	US-10-101-464A-74
11	47	45.2	919	9	US-10-101-464A-642
12	47	45.2	998	9	US-10-101-464A-931
13	47	45.2	1025	8	US-08-910-386A-7
14	47	45.2	1133	9	US-10-101-464A-809
15	46	44.2	154	9	US-10-101-464A-84
16	46	44.2	156	9	US-10-101-464A-509
17	46	44.2	247	9	US-10-101-464A-105
18	46	44.2	323	9	US-10-101-464A-764
19	46	44.2	612	9	US-10-101-464A-813

20	45	44.2	804	9	US-10-101-464A-890	Sequence 890, App
21	45	43.3	173	9	US-10-101-464A-741	Sequence 741, App
22	45	43.3	205	9	US-10-101-464A-607	Sequence 607, App
23	45	43.3	960	8	US-08-910-386A-18	Sequence 18, Appl
24	45	43.3	990	9	US-10-101-464A-814	Sequence 814, App
25	44	42.3	130	9	US-10-101-464A-780	Sequence 780, App
26	44	42.3	333	9	US-10-101-464A-561	Sequence 561, App
27	44	42.3	635	9	US-10-101-464A-932	Sequence 932, App
28	44	42.3	717	9	US-10-101-464A-810	Sequence 810, App
29	44	42.3	974	9	US-10-101-464A-921	Sequence 921, App
30	44	42.3	1161	8	US-08-910-386A-20	Sequence 20, Appl
31	44	42.3	2080	9	US-09-382-860-2	Sequence 2, Appl
32	43.5	41.8	277	9	US-10-101-464A-631	Sequence 631, App
33	43.5	41.8	1021	9	US-10-101-464A-954	Sequence 954, App
34	43	41.3	110	9	US-10-106-698-6552	Sequence 6552, Ap
35	43	41.3	110	9	US-09-764-891-3731	Sequence 3731, Ap
36	43	41.3	173	9	US-10-101-464A-714	Sequence 714, App
37	43	41.3	998	9	US-10-101-464A-895	Sequence 895, App
38	42	40.4	96	9	US-10-106-698-5992	Sequence 5992, Ap
39	42	40.4	160	9	US-10-125-540-535	Sequence 535, App
40	42	40.4	160	10	US-09-764-870-535	Sequence 535, App
41	42	40.4	186	9	US-10-125-540-430	Sequence 430, App
42	42	40.4	186	10	US-09-764-870-430	Sequence 430, App
43	42	40.4	224	9	US-10-101-464A-770	Sequence 770, App
44	42	40.4	365	9	US-10-101-464A-901	Sequence 901, App
45	42	40.4	466	9	US-10-101-464A-733	Sequence 733, App

ALIGNMENTS

RESULT 1
US-10-101-464A-939
; Sequence 939, Application US/10101464A
; Publication No. US20030046728A1
GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.102002
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 939
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-939

Query Match 48.1% Score 50; DB 9; Length 400;
Best Local Similarity 52.4%; Pred. No. 9.4;
Matches 11; Conservative 4; Mismatches 2; Indels 4; Gaps 1;

QY 2 LRSLSTSLSGPVLPFPQLXK 18
DB 347 VRLSNMNSGKIPDPGKFFP 367

RESULT 2
US-10-101-464A-893
; Sequence 893, Application US/10101464A
; Publication No. US20030046728A1

GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions isolated from Plant Cells
TITLE OF INVENTION: and their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020c2
CURRENT APPLICATION NUMBER: US/10/101.464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 893
LENGTH: 843
TYPE: PRT
ORGANISM: Pinus radiata
FEATURE:
NAME/KEY: VARIANT
LOCATION: (1)...(843)
OTHER INFORMATION: Xaa = Any Amino Acid
US-10-101-464A-893

Query Match 48.1%; Score 50; DB 9; Length 843;
Best Local Similarity 47.6%; Pred. No. 21;
Matches 10; Conservative 4; Mismatches 7; Indels 0; Gaps 0;

Qy 2 LRLSTSLSGPVLPFPOLXK 22.
Db 237 LELSDNMLSGPIPSFSLVR 257

RESULT 3
US-10-101-464A-914
Sequence 914, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020c2
CURRENT APPLICATION NUMBER: US/10/101.464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 914
LENGTH: 998
TYPE: PRT
ORGANISM: Eucalyptus grandis
US-10-101-464A-914

Query Match 46.6%; Score 48.5; DB 9; Length 998;
Best Local Similarity 54.5%; Pred. No. 44;
Matches 12; Conservative 3; Mismatches 6; Indels 1; Gaps 1;

Qy 2 LRLSTSLSGPV-LPFPOLXK 22
Db 114 LELSDNMLSGPIPSFSLVR 257

Db 575 LNLVNSLSGLPMPMTQYK 596

RESULT 4
US-10-101-464A-701
Sequence 701, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions isolated from Plant Cells
TITLE OF INVENTION: and their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020c2
CURRENT APPLICATION NUMBER: US/10/101.464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 701
LENGTH: 147
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-701

Query Match 46.2%; Score 48; DB 9; Length 147;
Best Local Similarity 50.0%; Pred. No. 6.2;
Matches 10; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

Qy 1 LRLSTSLSGPVLPFPOL 20
Db 114 LELSDNMLSGPIPSFSLVR 257

RESULT 5
US-10-101-464A-898
Sequence 898, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020c2
CURRENT APPLICATION NUMBER: US/10/101.464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 898
LENGTH: 383
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-898

Query Match 46.2%; Score 48; DB 9; Length 383;
Best Local Similarity 50.0%; Pred. No. 18;
Matches 10; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

OY 1 SLRSTSLSGVPLFFPOL 20
|||:|||||:
Db 295 SLDSNNITSGIPLGFSL 314

RESULT 6
US-10-101-464A-934
; Sequence 934, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from plant cells
; TITLE OF INVENTION: and their use in the modification of plant cell signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 934
; LENGTH: 828
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-934

Query Match 46.2%; Score 48; DB 9; Length 828;
Best Local Similarity 52.6%; Pred. No. 42;
Matches 10; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPLFFPOL 20
|||:|||||:
Db 269 LVISSNLSGPIPFESRL 287

RESULT 7
US-10-101-464A-769
; Sequence 769, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from plant cells
; TITLE OF INVENTION: and their use in the modification of plant cell signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 769
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-769

Query Match 45.2%; Score 47; DB 9; Length 170;
Best Local Similarity 57.9%; Pred. No. 10;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPLFFPOL 20
|||:|||||:
Db 147 LDLSGNNLSGVPFPAFSL 165

RESULT 8
US-08-910-386A-2
; Sequence 2, Application US/08910386A
; Patent No. US20020092041A1
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; APPLICANT: Hulbert, Scot
; APPLICANT: Richter, Todd
; TITLE OF INVENTION: Procedures and materials for conferring
; TITLE OF INVENTION: Disease Resistance in Plants
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,386A
; FILING DATE: 13-AUG-1997
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 023070-05895005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 612 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-910-386A-2

Query Match 45.2%; Score 47; DB 8; Length 612;
Best Local Similarity 64.3%; Pred. No. 43;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 1 SLRSTSLSGVPL 14
|||:|||||:
Db 476 SLGLSTNNLSGPIP 489

RESULT 9
US-10-101-464A-812
; Sequence 812, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from plant cells
; TITLE OF INVENTION: and their use in the modification of plant cell signaling
; FILE REFERENCE: 11000.1020C2


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; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 812
; LENGTH: 623
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-812

Query Match          45.2%; Score 47; DB 9; Length 623;
Best Local Similarity 76.9%; Pred. No. 44;
Matches 10; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY      2 LRLSTSLSGPVP 14
DB      174 LRLSTSLSGPVP 186

RESULT 10
US-10-101-464A-74
; Sequence 74, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from Plant Cells
; TITLE OF INVENTION: and their use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 74
; LENGTH: 638
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-74

Query Match          45.2%; Score 47; DB 9; Length 638;
Best Local Similarity 61.5%; Pred. No. 45;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY      2 LRLSTSLSGPVP 14
DB      164 LRLSTSLSGPVP 176

RESULT 11
US-10-101-464A-642
; Sequence 642, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from Plant Cells
; TITLE OF INVENTION: and their use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 642
; LENGTH: 919
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-642

Query Match          45.2%; Score 47; DB 9; Length 919;
Best Local Similarity 56.2%; Pred. No. 68;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

OY      2 LRLSTSLSGPVP 17
DB      62 LRLSTSLSGPVP 77

RESULT 12
US-10-101-464A-931
; Sequence 931, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from Plant Cells
; TITLE OF INVENTION: and their use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 931
; LENGTH: 998
; TYPE: PRT
; ORGANISM: Pinus radiata
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(998)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-101-464A-931

Query Match          45.2%; Score 47; DB 9; Length 998;
Best Local Similarity 57.9%; Pred. No. 74;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

OY      2 LRLSTSLSGPVP 20
DB      147 LRLSTSLSGPVP 165

RESULT 13
```

US-08-910-386A-7
; Sequence 7, Application US/08910386A
; Patent No. US20020092041A1
; GENERAL INFORMATION:
; APPLICANT: Ronald, Pamela C.
; APPLICANT: Wang, Guo-Liang
; APPLICANT: Song, Wen-Yuang
; APPLICANT: Hulbert, Scot
; APPLICANT: Richter, Todd
; TITLE OF INVENTION: Procedures and Materials for Confering
; TITLE OF INVENTION: Disease Resistance in Plants
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/910,386A
; FILING DATE: 13-AUG-1997
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 023070-058950US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1025 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-910-386A-7

Query Match 45.2%; Score 47; DB 8; Length 1025;
Best Local Similarity 64.3%; Pred. No. 76;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 SLRSTSLSGPVP 14
DB 476 SLGLSTNNLSGPI 489

RESULT 14
US-10-101-464A-809
; Sequence 809, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11

; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 809
; LENGTH: 1133
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-809

Query Match 45.2%; Score 47; DB 9; Length 1133;
Best Local Similarity 56.2%; Pred. No. 85;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 LRLSTSLSGPVP 17
DB 276 LRLSTSLSGPVP 291

RESULT 15
US-10-101-464A-84
; Sequence 84, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 84
; LENGTH: 154
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-84

Query Match 44.2%; Score 46; DB 9; Length 154;
Best Local Similarity 57.9%; Pred. No. 13;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 LRLSTSLSGPVP 20
DB 124 LRLSTSLSGPVP 142

Search completed: July 16, 2003, 06:57:41
Job time : 21.7222 secs

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 / Search time 4.05556 Seconds

(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-4

Perfect score: 104

Sequence: 1 SLRUSSTLSGVPPLFFPOLXK 22

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Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database:

Issued Patents AA:*

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- 2: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*
- 3: /cgn2_6/prodata/1/iaa/5A_COMB.pep:*
- 4: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*
- 5: /cgn2_6/prodata/1/iaa/5A_COMB.pep:*
- 6: /cgn2_6/prodata/1/iaa/5B_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	102	98.1	22	3	US-08-898-351-4
2	60	57.7	327	1	US-08-238-163-4
3	58	55.8	330	1	US-08-238-163-2
4	47	45.2	638	4	US-09-228-986-74
5	47	45.2	1012	2	US-08-475-891A-4
6	47	45.2	1025	2	US-08-567-375-4
7	47	45.2	1025	2	US-08-587-680A-4
8	46	44.2	142	4	US-08-945-983-7
9	46	44.2	154	4	US-09-228-986-84
10	46	44.2	247	4	US-09-228-986-105
11	46	44.2	863	2	US-08-666-271-2
12	45	43.3	277	2	US-08-567-375-16
13	45	43.3	544	2	US-08-587-680A-25
14	44.5	42.8	395	6	5196194-18
15	43	41.3	204	1	US-08-591-989-4
16	42.5	40.9	301	4	US-09-353-585-5
17	42.5	40.9	799	4	US-09-180-439-6
18	42.5	40.9	968	4	US-09-180-439-3
19	42.5	40.9	968	4	US-09-180-439-4
20	42.5	40.9	1016	4	US-09-180-439-8
21	42.5	40.9	1112	4	US-09-353-585-2
22	42.5	40.9	1112	4	US-09-353-585-3
23	42	40.4	910	4	US-09-228-986-72
24	42	40.4	1196	4	US-08-881-706-2
25	41.5	39.9	1023	2	US-08-475-891A-2
26	41.5	39.9	1023	2	US-08-567-375-2
27	41.5	39.9	1023	2	US-08-587-680A-2

28	41	39.4	947	4	US-09-228-986-73	Sequence 73, Appl
29	41	39.4	1299	5	PCT-US95-08354A-2	Sequence 2, Appl
30	40	38.5	96	4	US-08-945-983-9	Sequence 9, Appl
31	40	38.5	154	4	US-09-228-986-99	Sequence 99, Appl
32	40	38.5	630	4	US-09-228-986-71	Sequence 71, Appl
33	40	38.5	806	4	US-08-945-983-2	Sequence 2, Appl
34	40	38.5	968	4	US-09-228-986-76	Sequence 76, Appl
35	39	37.5	70	2	US-08-691-814B-34	Sequence 34, Appl
36	39	37.5	145	4	US-09-228-986-106	Sequence 106, Appl
37	39	37.5	199	4	US-09-144-918-4	Sequence 4, Appl
38	39	37.5	257	2	US-08-918-206-3	Sequence 3, Appl
39	39	37.5	258	2	US-08-463-081B-10	Sequence 10, Appl
40	39	37.5	258	2	US-08-461-379A-10	Sequence 10, Appl
41	39	37.5	258	2	US-08-462-390B-10	Sequence 10, Appl
42	39	37.5	258	3	US-08-463-074B-10	Sequence 10, Appl
43	39	37.5	258	3	US-08-465-585C-10	Sequence 10, Appl
44	39	37.5	258	3	US-08-652-446-10	Sequence 10, Appl
45	39	37.5	268	4	US-09-353-585-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-08-898-351-4
Sequence 4, Application US/08898351A
Patent No. 6096867
GENERAL INFORMATION:
APPLICANT: UNILEVER UNITED STATES, INC
TITLE OF INVENTION: FROZEN FOOD PRODUCT
FILE REFERENCE: FROZEN FOOD PRODUCT
CURRENT APPLICATION NUMBER: US/08/898,351A
CURRENT FILING DATE: 1997-07-22
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 22
TYPE: PRT
ORGANISM: CARROT ROOT
FEATURE:
NAME/KEY: UNSURE
LOCATION: (21)
OTHER INFORMATION: Xaa represents any amino acid found in plant
US-08-898-351-4

Query Match 98.1%; Score 102; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 5, 1e-10;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SLRUSSTLSGVPPLFFPOLXK 22
DB 1 SLRUSSTLSGVPPLFFPOLXK 22

RESULT 2
US-08-238-163-4
Sequence 4, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STOTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSES: Townsend and Townsend Khourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US

ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238.163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Baetian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307E-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-4

Query Match 57.7%; Score 60; DB 1; Length 327;
Best Local Similarity 63.2%; Pred. No. 0.055;
Matches 12; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPLPFPOL 20
DB 120 LRLSFTNLGPIPEFLSQL 138

RESULT 3
US-08-238-163-2
Sequence 2, Application US/08238163
Patent No. 5569830
GENERAL INFORMATION:
APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STOTZ, Henrik
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238.163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Baetian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 2307E-540
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 330 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-238-163-2

Query Match 55.8%; Score 58; DB 1; Length 330;
Best Local Similarity 70.0%; Pred. No. 0.12;
Matches 14; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

OY 1 SLRLSTSLSGVPLPFPOL 20
DB 123 SLRLSWTNLSGVDPFLSQL 142

RESULT 4
US-09-228-986-74
Sequence 74, Application US/09228986
Patent No. 6359198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Niels
TITLE OF INVENTION: Compositions Isolated from Plant Cells
FILE REFERENCE: 11000/1020
CURRENT APPLICATION NUMBER: US/09/228,986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ. ID NOS: 130
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 74
LENGTH: 638
TYPE: PRT
ORGANISM: Pinus radiata
US-09-228-986-74

Query Match 45.2%; Score 47; DB 4; Length 638;
Best Local Similarity 61.5%; Pred. No. 14;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPL 14
DB 164 LRLNNNLSGPI 176

RESULT 5
US-08-475-891A-4
Sequence 4, Application US/08475891A
Patent No. 5859339
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
TITLE OF INVENTION: Procedures and Materials for Confering
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475.891A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
ATTORNEY/AGENT INFORMATION:

NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058910US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1012 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..1012
OTHER INFORMATION: /note="Xa21 Xanthomonas spp.
OTHER INFORMATION: disease resistance polypeptide RRK-B
OTHER INFORMATION: from rice (Oryza sativa)"
US-08-475-891A-4

Query Match 45.2%; Score 47; DB 2; Length 1012;
Best Local Similarity 64.3%; Pred. No. 23;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 1 SLRSTSLSGPVP 14
DB 476 SLGLSTNLSGP 489

RESULT 6
US-08-567-375-4
Sequence 4, Application US/08567375
Patent No. 5952485

GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Confering
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/567,375
FILING DATE: 04-DEC-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058930
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1025 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-567-375-4

Query Match 45.2%; Score 47; DB 2; Length 1025;
Best Local Similarity 64.3%; Pred. No. 24;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 1 SLRSTSLSGPVP 14
DB 476 SLGLSTNLSGP 489

RESULT 7
US-08-567-680A-4
Sequence 4, Application US/08587680A
Patent No. 5977434

GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Confering
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/587,680A
FILING DATE: 17-JAN-1996
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/567,375
FILING DATE: 04-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058940US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1025 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-567-680A-4

Query Match 45.2%; Score 47; DB 2; Length 1025;
Best Local Similarity 64.3%; Pred. No. 24;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
Db 476 SLGSLSTSLSGPVP 14
1 SLGSLSTSLSGPVP 14
476 SLGSLSTSLSGPVP 489

RESULT 8
US-08-945-983-7
; Sequence 7, Application US/08945983
; Patent No. 6235527
; GENERAL INFORMATION:
; APPLICANT: Thomas, Colwyn M
; APPLICANT: Balint-Kurti, Peter J
; APPLICANT: Jones, David A
; APPLICANT: Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses
; TITLE OF INVENTION: thereof
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Nixon & Vanderhye PC
; STREET: 8th Floor, 1100 No. 6225527th Glebe Road
; CITY: Arlington
; STATE: Virginia
; COUNTRY: USA
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/945.983
; FILING DATE: 12-NOV-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB96/01155
; FILING DATE: 13-MAY-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9509575.8
; FILING DATE: 11-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ms Mary J Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-27
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 142 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-945-983-7 1

Query Match 44.2%; Score 46; DB 4; Length 142;
Best Local Similarity 69.2%; Pred. No. 3.6;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Db 80 LDLSNSLSGPIP 92
2 LDLSNSLSGPIP 14
80 LDLSNSLSGPIP 92

RESULT 9
US-09-228-986-84
; Sequence 84, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions isolated from Plant Cells

; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228.986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 84
; LENGTH: 154
; TYPE: PRT
; ORGANISM: Pinus radiata
US-09-228-986-84

Query Match 44.2%; Score 46; DB 4; Length 154;
Best Local Similarity 57.9%; Pred. No. 3.9;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Db 124 LDLSNSLSGPIP 142
2 LDLSNSLSGPIP 20
124 LDLSNSLSGPIP 142

RESULT 10
US-09-228-986-105
; Sequence 105, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228.986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 105
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-09-228-986-105

Query Match 44.2%; Score 46; DB 4; Length 247;
Best Local Similarity 69.2%; Pred. No. 6.7;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Db 131 LDLSNSLSGPIP 143
2 LDLSNSLSGPIP 14
131 LDLSNSLSGPIP 143

RESULT 11
US-08-666-271-2
; Sequence 2, Application US/08666271
; Patent No. 5920000
; GENERAL INFORMATION:
; APPLICANT: JONES, JONATHAN D
; APPLICANT: HAMMOND-KOSACK, KIM E
; APPLICANT: THOMAS, COLWYN M
; APPLICANT: JONES, DAVID A
; TITLE OF INVENTION: PLANT PATHOGEN RESISTANCE GENES AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: NIXON & VANDERHYE P. C.
; STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/666,271
FILING DATE: 19-SEP-1996
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/CB94/02812
FILING DATE: 23-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9326428.1
FILING DATE: 24-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9409363.0
FILING DATE: 11-MAY-1994
ATTORNEY/AGENT INFORMATION:
NAME: SADOFF, B.J.
REGISTRATION NUMBER: 36,663
REFERENCE/DOCKET NUMBER: 620-7
TELEPHONE: 703-816-4091
TELEFAX: 703-816-4100
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 863 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-666-271-2

Query Match 44.2%; Score 46; DB 2; Length 863;
Best Local Similarity 69.2%; Pred. No. 28;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVP 14
Db 364 LDLSNSLTGP 376

RESULT 12
US-08-567-375-16
Sequence 16, Application US/08567375
Patent No. 5952485
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Confering
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/567,375
FILING DATE: 04-DEC-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058930
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 277 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-567-375-16

Query Match 43.3%; Score 45; DB 2; Length 277;
Best Local Similarity 47.4%; Pred. No. 11;
Matches 9; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

OY 2 LRLSTSLSGVPLFPOL 20
Db 75 LDLSQNLSCPTPQIAQT 93

RESULT 13
US-08-587-680A-25
Sequence 25, Application US/08587680A
Patent No. 5977434
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Szabo, Veronique
TITLE OF INVENTION: Procedures and Materials for Confering
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/587,680A
FILING DATE: 17-JAN-1996
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/373,375
FILING DATE: 17-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/475,891
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,645
FILING DATE: 29-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/567,375
FILING DATE: 04-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058940US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200

```

: TELEFAX: (415) 576-0300
: INFORMATION FOR SEQ ID NO: 25:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 544 amino acids
:   TYPE: amino acid
:   STRANDEDNESS:
:   TOPOLOGY: linear
: MOLECULE TYPE: protein
: FEATURE:
:   NAME/KEY: Protein
:   LOCATION: 1..544
:   OTHER INFORMATION: /note= "Tomato Receptor kinase 1 (TRK1)"
:
US-08-567-680A-25

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Query Match	43.3%;	Score 45;	DB 2;	Length 544;
Best Local Similarity	47.4%;	Pred. No. 24;		
Matches 9;	Conservative 3;	Mismatches 7;	Indels 0;	Gaps 0;

```

Oy      2 LRLSTSLSGPVPLFFPQL 20
         | | | | | : | :
db      72 LRLSQNLGSPRPVQIAQI 90

```

RESULT 14
 5196194-18
 Patent No. 5196194
 APPLICANT: RUTTER, WILLIAM J.; GOODMAN, HOWARD M.
 TITLE OF INVENTION: VACCINES CONTAINING HEPATITIS B S-PROTEIN
 NUMBER OF SEQUENCES: 21
 CURRENT APPLICATION NUMBER:
 APPLICATION NUMBER: US/07/679,621
 FILING DATE: 7-DEC-1984
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 513,055
 FILING DATE: 12-JUL-1983
 APPLICATION NUMBER: 107,267
 FILING DATE: 21-DEC-1979
 APPLICATION NUMBER: 41,909
 FILING DATE: 24-MAY-1979
 SEQ ID NO:18:
 LENGTH: 395
 1196194-18

Query Match	42.8%	Score 44.5;	DB 6;	Length 395;
Best Local Similarity	64.7%	Pred. No. 20;		
Matches 11; Conservative	1;	Mismatches 4;	Indels 1;	Gaps 1;

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QY      3 RLSSTSLGVPVL-FPP 18
      |  | : | | | | | |
Db      8 RKGGTNLSVPVPLGFFP 24
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RESULT 15
US-08-591-989-4
Sequence 4, Application US/08591989-1
Patent No. 5785721
GENERAL INFORMATION:
APPLICANT: Ross S. Rabin, Smedha Jayasena
APPLICANT: and Larry Gold
TITLE OF INVENTION: HIGH AFFINITY NUCLEIC
TITLE OF INVENTION: ACID LIGANDS OF ICP4
NUMBER OF SEQUENCES: 87
CORRESPONDENCE ADDRESS:
ADDRESSEE: Swanson & Bratschun, L.L.C.
STREET: 8400 East Prentice Avenue, Suite #2000
CITY: Englewood
STATE: Colorado
COUNTRY: USA
ZIP: 80111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.40 MB
MEDIUM TYPE: storage
COMPUTER: IBM COMPATIBLE

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1 OPERATING SYSTEM: MS-DOS
2 SOFTWARE: WORD PERFECT 6.0
3 CURRENT APPLICATION DATA:
4 APPLICATION NUMBER: US/08/591,985
5 FILING DATE:
6 CLASSIFICATION: 435
7 ATTORNEY/AGENT INFORMATION:
8 NAME: Barry J. Swanson
9 REGISTRATION NUMBER: 33,215
10 REFERENCE/DOCKET NUMBER: NX 49
11 TELECOMMUNICATION INFORMATION:
12 TELEPHONE: (303) 793-3333
13 TELEFAX: (303) 793-3433
14 INFORMATION FOR SEQ. ID NO.: 4:
15 SEQUENCE CHARACTERISTICS:
16 LENGTH: 204
17 TYPE: amino acid
18 STRANDEDNESS: single
19 TOPOLOGY: linear
20
21 US-08-591-989-4

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Query Match	41.3%	Score	43	DB	1	Length	204
Best Local Similarity	54.5%	Score	No. 16				
Matches	6	Conservative	4	Mismatches	1	Indels	0
						Gaps	0

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QY      10 SGPVPLFFPQL 20
        :|||:| |:
Db      79 AGPVVPVFIPEM 89
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Search completed: July 16, 2003, 06:59:05
Job time : 5.05556 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 15.798 Seconds

(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-5

Perfect score: 67

Sequence: 1 XXEVIPLXSLTLPMLK 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 451899 segs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:.*
5: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:.*
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8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:.*
9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:.*
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11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:.*
12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:.*
13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	49	73.1	942	US-10-101-464A-911	Sequence 911, App
2	41	61.2	159	US-10-101-464A-597	Sequence 911, App
3	41	61.2	167	US-10-101-464A-715	Sequence 715, App
4	41	61.2	370	US-10-101-464A-944	Sequence 944, App
5	41	61.2	894	US-09-754-853A-1099	Sequence 1099, App
6	41	61.2	894	US-09-754-853A-1116	Sequence 1116, App
7	41	61.2	894	US-09-754-853A-1117	Sequence 1117, App
8	41	61.2	894	US-09-754-853A-1118	Sequence 1118, App
9	41	61.2	894	US-09-754-853A-1119	Sequence 1119, App
10	39	58.2	304	US-10-101-464A-717	Sequence 717, App
11	39	58.2	516	US-10-101-464A-936	Sequence 936, App
12	38	56.7	711	US-10-101-464A-79	Sequence 79, App
13	38	56.7	977	US-09-949-192-23	Sequence 23, App
14	38	56.7	1004	US-09-738-626-4210	Sequence 4210, App
15	37	55.2	156	US-10-101-464A-740	Sequence 740, App
16	37	55.2	193	US-09-796-692-2458	Sequence 2458, App
17	37	55.2	224	US-10-040-862-2458	Sequence 2458, App
18	37	55.2	224	US-10-101-464A-751	Sequence 751, App
19	37	55.2	635	US-09-990-385-1	Sequence 1, Appl

20	37	55.2	910	US-10-101-464A-72	Sequence 72, Appl
21	36	53.7	205	US-10-101-464A-607	Sequence 607, App
22	36	53.7	295	US-09-925-100-1061	Sequence 1061, App
23	36	53.7	353	US-10-106-698-4438	Sequence 4438, App
24	36	53.7	426	US-09-815-242-10153	Sequence 10153, App
25	36	53.7	498	US-10-156-761-14582	Sequence 14582, App
26	36	53.7	510	US-10-156-761-11980	Sequence 11980, App
27	36	53.7	524	US-10-156-761-11980	Sequence 11980, App
28	36	53.7	731	US-10-101-464A-943	Sequence 943, App
29	36	53.7	811	US-09-361-630-3	Sequence 3, Appl
30	36	53.7	810	US-09-815-242-11875	Sequence 11875, App
31	36	53.7	854	US-09-772-1348-14	Sequence 14, Appl
32	36	53.7	854	US-09-754-853A-1098	Sequence 1098, App
33	36	53.7	854	US-09-754-853A-1103	Sequence 1101, App
34	36	53.7	854	US-09-754-853A-1103	Sequence 1101, App
35	36	53.7	854	US-09-754-853A-1107	Sequence 1105, App
36	36	53.7	854	US-09-754-853A-1107	Sequence 1105, App
37	36	53.7	854	US-09-754-853A-1109	Sequence 1109, App
38	36	53.7	854	US-09-754-853A-1111	Sequence 1111, App
39	36	53.7	854	US-09-754-853A-1113	Sequence 1113, App
40	36	53.7	854	US-09-754-853A-1115	Sequence 1115, App
41	36	53.7	877	US-09-754-853A-1097	Sequence 1097, App
42	36	53.7	877	US-09-754-853A-1102	Sequence 1102, App
43	36	53.7	877	US-09-754-853A-1104	Sequence 1104, App
44	36	53.7	877	US-09-754-853A-1106	Sequence 1106, App
45	36	53.7	877	US-09-754-853A-1108	Sequence 1108, App

ALIGNMENTS

RESULT 1
US-10-101-464A-911
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101.464A
; PRIOR APPLICATION NUMBER: 2002-03-18
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 999
; SOFTWARE: Fasteq for Windows Version 4.0
; SEQ ID NO 911
; LENGTH: 942
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-911
Query Match 73.1%; Score 49; DB 9; Length 942;
Best Local Similarity 75.0%; Pred. No. 1.5;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
OY 5 IPXOLSTLPMLK 16
Db 415 IPSELTLPMLK 426
RESULT 2
US-10-101-464A-597
; Sequence 597, Application US/10101464A
; Publication No. US20030046728A1

GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101.464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 597
LENGTH: 159
TYPE: PRT
ORGANISM: Eucalyptus grandis
US-10-101-464A-597

Query Match
Best Local Similarity 61.2%; Score 41; DB 9; Length 159;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 5 IPXQSLTPNLK 16
Db 85 IPSELTLSNLK 96

RESULT 3
US-10-101-464A-715
Sequence 715, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101.464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 715
LENGTH: 167
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-715

Query Match
Best Local Similarity 61.2%; Score 41; DB 9; Length 167;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

OY 5 IPXQSLTPNLK 16
Db 45 IPSLUTQPLNLK 56

RESULT 4

US-10-101-464A-944
Sequence 944, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101.464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 944
LENGTH: 370
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-944

Query Match
Best Local Similarity 61.2%; Score 41; DB 9; Length 370;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

OY 5 IPXQSLTPNLK 16
Db 166 IPSTLSQIPNLK 177

RESULT 5
US-09-754-853A-1099
Sequence 1099, Application US/09754853A
Publication No. US2003005491A1
GENERAL INFORMATION:
APPLICANT: Hauge, Brian M.
APPLICANT: Parsons, Jeremy D.
APPLICANT: Wang, Ming Li
TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
TITLE OF INVENTION: Soybean Cyst Nematode Resistance
FILE REFERENCE: 38-10(15810)B
CURRENT APPLICATION NUMBER: US/09/754,853A
CURRENT FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: US 60/174,880
PRIOR FILING DATE: 2000-01-07
NUMBER OF SEQ ID NOS: 1119
SEQ ID NO 1099
LENGTH: 894
TYPE: PRT
FEATURE:
ORGANISM: Glycine max
OTHER INFORMATION: Clone ID: 318013_region_A3
US-09-754-853A-1099

Query Match
Best Local Similarity 61.2%; Score 41; DB 9; Length 894;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

OY 4 VIPXQSLTPNLK 16
Db 241 VVPASLTSPLSK 253

RESULT 6
US-09-754-853A-1116

```
Sequence 1116, Application US/09754853A
Publication No. US20030005491A1
GENERAL INFORMATION:
APPLICANT: Hauge, Brian M.
APPLICANT: Parnell, Laurence D.
APPLICANT: Parsons, Jeremy D.
APPLICANT: Wang, Ming Li
TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
FILE REFERENCE: 38-10(15810)B
CURRENT APPLICATION NUMBER: US/09/754,853A
PRIOR FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: US 60/174,880
NUMBER OF SEQ ID NOS: 1119
SEQ ID NO 1116
LENGTH: 894
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: rhg4_a3244_amplicon
US-09-754-853A-1116
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Query Match      61.2%  Score 41;  DB 9;  Length 894;
Best Local Similarity 53.8%  Pred. No. 39;
Matches 7;  Conservative 4;  Mismatches 2;  Indels 0;  Gaps 0;
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```
QY      4 VIPXQSLTPNLK 16
Db      241 VVPASTLSLPSLK 253
```

```
RESULT 7
US-09-754-853A-1117
Sequence 1117, Application US/09754853A
Publication No. US20030005491A1
GENERAL INFORMATION:
APPLICANT: Hauge, Brian M.
APPLICANT: Parnell, Laurence D.
APPLICANT: Parsons, Jeremy D.
APPLICANT: Wang, Ming Li
TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
FILE REFERENCE: 38-10(15810)B
CURRENT APPLICATION NUMBER: US/09/754,853A
PRIOR FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: US 60/174,880
NUMBER OF SEQ ID NOS: 1119
SEQ ID NO 1117
LENGTH: 894
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: rhg4_Minsoy_amplicon
US-09-754-853A-1117
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```
Query Match      61.2%  Score 41;  DB 9;  Length 894;
Best Local Similarity 53.8%  Pred. No. 39;
Matches 7;  Conservative 4;  Mismatches 2;  Indels 0;  Gaps 0;
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```
QY      4 VIPXQSLTPNLK 16
Db      241 VVPASTLSLPSLK 253
```

```
RESULT 8
US-09-754-853A-1118
Sequence 1118, Application US/09754853A
Publication No. US20030005491A1
GENERAL INFORMATION:
APPLICANT: Hauge, Brian M.
APPLICANT: Parnell, Laurence D.
```

```
APPLICANT: Parsons, Jeremy D.
APPLICANT: Wang, Ming Li
TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
FILE REFERENCE: 38-10(15810)B
CURRENT APPLICATION NUMBER: US/09/754,853A
PRIOR FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: US 60/174,880
NUMBER OF SEQ ID NOS: 1119
SEQ ID NO 1118
LENGTH: 894
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: rhg4_Jack_amplicon
US-09-754-853A-1118
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Query Match      61.2%  Score 41;  DB 9;  Length 894;
Best Local Similarity 53.8%  Pred. No. 39;
Matches 7;  Conservative 4;  Mismatches 2;  Indels 0;  Gaps 0;
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```
QY      4 VIPXQSLTPNLK 16
Db      241 VVPASTLSLPSLK 253
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```
RESULT 9
US-09-754-853A-1119
Sequence 1119, Application US/09754853A
Publication No. US20030005491A1
GENERAL INFORMATION:
APPLICANT: Hauge, Brian M.
APPLICANT: Parnell, Laurence D.
APPLICANT: Parsons, Jeremy D.
APPLICANT: Wang, Ming Li
TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
FILE REFERENCE: 38-10(15810)B
CURRENT APPLICATION NUMBER: US/09/754,853A
PRIOR FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: US 60/174,880
NUMBER OF SEQ ID NOS: 1119
SEQ ID NO 1119
LENGTH: 894
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: rhg4_eking_amplicon
US-09-754-853A-1119
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```
Query Match      61.2%  Score 41;  DB 9;  Length 894;
Best Local Similarity 53.8%  Pred. No. 39;
Matches 7;  Conservative 4;  Mismatches 2;  Indels 0;  Gaps 0;
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```
QY      4 VIPXQSLTPNLK 16
Db      241 VVPASTLSLPSLK 253
```

```
RESULT 10
US-10-101-464A-717
Sequence 717, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
FILE REFERENCE: 11000.1020C2
CURRENT APPLICATION NUMBER: US/10/101,464A
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; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 717
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-717

Query Match      58.2%; Score 39; DB 9; Length 304;
Best Local Similarity 63.6%; Pred. No. 26;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      4 VIPXQSLTLPN 14
      :|:|:|:|:|
      :|:|:|:|:|
Db      101 IIPKMLSTMPN 111

RESULT 11
US-10-101-464A-936
; Sequence 936, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 936
; LENGTH: 516
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-936

Query Match      58.2%; Score 39; DB 9; Length 516;
Best Local Similarity 58.3%; Pred. No. 48;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      5 IFOXSLTLPNKL 16
      :|:|:|:|:|
      :|:|:|:|:|
Db      66 LPSSLATLPK 77

RESULT 12
US-10-101-464A-79
; Sequence 79, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
```

```

; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 79
; LENGTH: 711
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-79

Query Match      56.7%; Score 38; DB 9; Length 711;
Best Local Similarity 63.6%; Pred. No. 11e+02;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      5 IFOXSLTLPN 15
      :|:|:|:|:|
      :|:|:|:|:|
Db      246 IPINELANLPN 256

RESULT 13
US-09-949-192-23
; Sequence 23, Application US/09949192
; Patent No. US20020142292A1
; GENERAL INFORMATION:
; APPLICANT: Parham, Christi L.
; APPLICANT: Gorman, Daniel L.
; APPLICANT: Kurata, Hirokazu
; APPLICANT: Arai, Naoko
; APPLICANT: Sana, Theodore R.
; APPLICANT: Mattson, Jeanine D.
; APPLICANT: Murphy, Erin E.
; APPLICANT: Savkoor, Chetan
; APPLICANT: Grein, Jeffrey
; APPLICANT: Smith, Kathleen M.
; APPLICANT: McClanahan, Terrell K.
; TITLE OF INVENTION: MAMMALIAN GENES, RELATED REAGENTS AND METHODS
; FILE REFERENCE: DX01169K
; CURRENT APPLICATION NUMBER: US/09/949,192
; CURRENT FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: 60/231,267
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: Patentin version 3.1
; SEQ ID NO: 23
; LENGTH: 977
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-949-192-23

Query Match      56.7%; Score 38; DB 10; Length 977;
Best Local Similarity 50.0%; Pred. No. 1.5e+02;
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY      3 EVIPXQSLTLPNKL 16
      :|:|:|:|:|
      :|:|:|:|:|
Db      494 EIOPAFSLMPNKL 507

RESULT 14
US-09-738-626-4210
; Sequence 4210, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
```

Search completed: July 16, 2003, 06:57:42
 Job time : 16.798 secs

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; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, MAOKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 4210
; LENGTH: 1004
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-4210

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Query Match 56.7%; Score 38; DB 9; Length 1004;
 Best Local Similarity 88.9%; Pred. No. 1.6e+02;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 8 QLSLPLNK 16
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 Db 566 QLSLPLNK 574

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RESULT 15
US-10-101-464A-740
; Sequence 740, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000.1020C2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 740
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Pinus radiata
US-10-101-464A-740

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Query Match 55.2%; Score 37; DB 9; Length 156;
 Best Local Similarity 46.2%; Pred. No. 28;
 Matches 6; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

OY 4 VIPXQLSLPLNK 16
 |||||
 Db 88 IIPGLSLPLNK 100

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 2.94949 Seconds

(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-5

Perfect score: 67

Sequence: 1 XXEIVPXQLSTLPNPK 16

Scoring table: BLOSUM62

Searched: Gap0 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	63	94.0	16	3	US-08-898-351-5
2	39	58.2	162	4	US-08-858-207A-263
3	39	58.2	327	1	US-08-238-163-4
4	39	58.2	330	1	US-08-238-163-4
5	38	56.7	711	4	US-09-228-986-79
6	37	55.2	635	4	US-09-142-623-1
7	37	55.2	910	4	US-09-228-986-72
8	36	53.7	1382	3	US-09-057-570-4
9	35	52.2	227	1	US-08-244-646-17
10	35	52.2	270	4	US-09-134-001C-5441
11	35	52.2	342	1	US-08-244-646-15
12	35	52.2	342	1	US-08-592-936B-21
13	35	52.2	342	1	US-09-111-572-21
14	35	52.2	443	1	US-08-399-986B-2
15	35	52.2	443	1	US-08-493-754A-2
16	35	52.2	466	1	US-07-923-739-2
17	35	52.2	482	4	US-08-935-450-2
18	34	50.7	749	4	US-09-562-737-99
19	34	50.7	1657	3	US-09-057-570-2
20	34	50.7	1805	3	US-09-057-570-7
21	34	49.3	35	2	US-08-392-625-35
22	33	49.3	35	2	US-08-466-961A-35
23	33	49.3	40	2	US-08-645-193B-66
24	33	49.3	157	4	US-08-910-731-2
25	33	49.3	456	2	US-08-910-731-2
26	33	49.3	456	2	US-08-910-731-2
27	33	49.3	456	2	US-08-910-731-2

28	33	49.3	456	2	US-08-795-195-2	Sequence 2, Appli
29	33	49.3	475	5	US-08-272-255-13	Sequence 13, Appli
30	33	49.3	475	5	PCT-US95-08565-13	Sequence 2, Appli
31	33	49.3	648	2	US-08-817-436A-2	Sequence 2, Appli
32	32	47.8	14	1	US-07-946-234A-4	Sequence 4, Appli
33	32	47.8	14	1	US-08-123-161A-4	Sequence 4, Appli
34	32	47.8	14	1	US-08-483-278-4	Sequence 4, Appli
35	32	47.8	21	1	US-07-748-292-5	Sequence 5, Appli
36	32	47.8	37	1	US-08-401-246-2	Sequence 2, Appli
37	32	47.8	83	2	US-08-537-811-47	Sequence 47, Appli
38	32	47.8	121	1	US-07-748-292-1	Sequence 1, Appli
39	32	47.8	125	2	US-08-662-480B-1	Sequence 1, Appli
40	32	47.8	136	6	US-08-286-4	Sequence 1, Appli
41	32	47.8	141	4	US-08-444-818-56	Sequence 56, Appli
42	32	47.8	151	3	US-08-916-043-5	Sequence 5, Appli
43	32	47.8	151	6	US-08-286-2	Sequence 77, Appli
44	32	47.8	179	4	US-08-444-818-77	Sequence 324, Appli
45	32	47.8	288	4	US-08-858-207A-324	

ALIGNMENTS

RESULT 1
US-08-898-351-5
Sequence 5, Application US/08898351A
Patent No. 6036867
GENERAL INFORMATION:
APPLICANT: UNILEVER UNITED STATES, INC
TITLE OF INVENTION: FROZEN FOOD PRODUCT
FILE REFERENCE: FROZEN FOOD PRODUCT
CURRENT APPLICATION NUMBER: US/08/898,351A
CURRENT FILING DATE: 1997-07-22
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 16
TYPE: PRP
ORGANISM: CARROT ROOT
FEATURE:
NAME/KEY: UNSURE
LOCATION: (1)..(7)
OTHER INFORMATION: Xaa represents any amino acid found in plant
US-08-898-351-5

Query Match 94.0%; Score 63; DB 3; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 3 EVIPXQLSTLPNPK 16
DB 3 EVIPXQLSTLPNPK 16

RESULT 2
US-08-858-207A-263
Sequence 263, Application US/08858207A
Patent No. 6348328
GENERAL INFORMATION:
APPLICANT: Black, Michael
APPLICANT: Hodgson, John
APPLICANT: Knowles, David
APPLICANT: Stodola, Richard
TITLE OF INVENTION: No. 6348328el Compounds
NUMBER OF SEQUENCES: 552
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA

```

1      ZIP: 19406-0939
2      COMPUTER READABLE FORM:
3      MEDIUM TYPE: Diskette
4      COMPUTER: IBM Compatible
5      OPERATING SYSTEM: DOS
6      SOFTWARE: FASTQSO for Windows Version 2.0
7      CURRENT APPLICATION DATA:
8      APPLICATION NUMBER: US/08/858,207A
9      FILING DATE: 09-MAY-1997
10     CLASSIFICATION: 435
11     PRIOR APPLICATION DATA:
12     APPLICATION NUMBER: 60/017670
13     FILING DATE: 14-MAY-1996
14     ATTORNEY/AGENT INFORMATION:
15     NAME: Gimm, Edward R
16     REGISTRATION NUMBER: 38,891
17     REFERENCE/DOCKET NUMBER: P50475
18     TELECOMMUNICATION INFORMATION:
19     TELEPHONE: 610-270-4478
20     TELEFAX: 610-270-5090
21     TELEX:
22     INFORMATION FOR SEQ ID NO: 263:
23     SEQUENCE CHARACTERISTICS:
24     LENGTH: 162 amino acids
25     TYPE: amino acid
26     STRANDEDNESS: single
27     TOPOLOGY: linear
28     MOLECULE TYPE: NO. 6348329e
29     US-08-858-207A-263

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	Query Match	58.2%	Score 39	DB 4	Length 162
	Best Local Similarity	57.1%	Pred. No. 8.6		
	Matches	8; Conservative	2; Mismatches	4; Indels	0; Gaps
OY	3 EVIPXQSTLPNKK 16				
	: : : : : :				
Dd	32 EIIAYNNLSTSPNLE 45				

RESULT 3
 US-08-238-163-4
 ; Sequence 4, Application US/08238163
 ; Patent No. 5569830
 ; GENERAL INFORMATION:
 ; APPLICANT: BENNETT, Alan
 ; APPLICANT: LABAVITCH, John M.
 ; APPLICANT: POWELL, Ann
 ; APPLICANT: STOTZ, Henrik
 ; TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
 ; TITLE OF INVENTION: POLYGLACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASES
 ; NUMBER OF SEQUENCES: 24
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Townsend and Townsend Kourie and Crew
 ; STREET: Stewart Street Tower, pne Market Plaza
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: US
 ; ZIP: 94105-1493
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/238,163
 ; FILING DATE: 03-MAY-1994
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bastian, Kevin L.
 ; REGISTRATION NUMBER: 34,774
 ; REFERENCE/DOCKET NUMBER: 2307E-540
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 543-9600

```

: TELEFAX: (415) 543-5043
:
: INFORMATION FOR SEQ ID NO: 4
:
: SEQUENCE CHARACTERISTICS
:
: LENGTH: 327 amino acids
:
: TYPE: amino acid
:
: TOPOLOGY: linear
:
: MOLECULE TYPE: protein
US-08-238-163-4

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Query Match	58.2%	Score 39;	DB 1;	Length 327;
Best Local Similarity	72.7%	Pred. No. 19;		
Matches	8;	Conservative	0;	Mismatches 3;
			Indels	0;
			Gaps	0;

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QY      5 IPXQLSTLPNL 15
          ||| |||
Db     155 IPSSLSQLPNT 165
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RESULT 4
 US-08-238-163-2
 ; Sequence 2, Application US/08238163
 ; Patent No. 5569830
 ;
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: BENNETT, Alan
 ;
 ; APPLICANT: LABAVITCH, John M.
 ;
 ; APPLICANT: POWELL, Ann
 ;
 ; APPLICANT: STOTZ, Henrik
 ;
 ; TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
 ;
 ; NUMBER OF INVENTORS: POLYCALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
 ;
 ; NUMBER OF SQUENCES: 24

```

1 ADDRESSSEE: Townsend and Townsend Kourie and Crew
2 STREET: Stewart Street Tower, One Market Plaza
3 CITY: San Francisco
4 STATE: California
5 COUNTRY: US
6 ZIP: 94105-1493
7 COMPUTER READABLE FORM:
8 MEDIUM TYPE: Floppy disk
9 COMPUTER: IBM PC compatible
10 OPERATING SYSTEM: PC-DOS/MS-DOS
11 SOFTWARE: Patentn Release #1.0, Version #1.25
12 CURRENT APPLICATION DATA:
13 APPLICATION NUMBER: US/08/238,163
14 FILING DATE: 03-MAY-1994
15 CLASSIFICATION: 800
16 ATTORNEY/AGENT INFORMATION:
17 NAME: Bastian, Kevin L.
18 REGISTRATION NUMBER: 34,774
19 REFERENCE/DOCKET NUMBER: 2307E-540
20 TELECOMMUNICATION INFORMATION:
21 TELEPHONE: (415) 543-9600
22 TELEFAX: (415) 543-5043
23 INFORMATION FOR SEQ ID NO: 2:
24 SEQUENCE CHARACTERISTICS:
25 LENGTH: 330 amino acids
26 TYPE: amino acid
27 TOPOLOGY: linear
28 MOLECULE TYPE: protein
29 US-08-238-163-2

```

Query Match	58.2%	Score 39;	DB 1;	Length 330;
Best Local Similarity	72.7%;	Pred. NO. 19;		
Matches	8;	Conservative	0;	Mismatches 3;
			Indels	0;
			Gaps	0

```

QY      5 IPXQLSTLPNL 15
          ||| |||
Db      159 IPSSLSELPNL 169

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RESULT 5
US-09-228-986-79
; Sequence 79, Application US/09228986

```
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 79
; LENGTH: 711
; TYPE: PRT
; ORGANISM: Pinus radiata
US-09-228-986-79

Query Match      56.7%; Score 38; DB 4; Length 711;
Best Local Similarity 63.6%; Pred. No. 70;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      5 IPXOLSTLPNL 15
       |||:|||||
Db      246 IPNELANLPNL 256

RESULT 6
US-09-142-623-1
; Sequence 1, Application US/09142623
; Patent No. 6337201
; GENERAL INFORMATION:
; APPLICANT: Koji YANAI et al.
; TITLE OF INVENTION: -FRUCTOFRANOSIDASE AND ITS GENE, METHOD OF
; TITLE OF INVENTION: ISOLATING -FRUCTOFRANOSIDASE GENE, SYSTEM FOR PRODUCING
; TITLE OF INVENTION: -FRUCTOFRANOSIDASE, AND -FRUCTOFRANOSIDASE VARIANT
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wenderoth, Lind & Ponack, L.L.P.
; STREET: 2033 K Street, N.W., Suite 800
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/142,623
; FILING DATE: September 10, 1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lee Cheng
; REGISTRATION NUMBER: 40,949
; REFERENCE/DOCKET NUMBER: 98-0989*/LC(WMC)/144
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-721-8200
; TELEFAX: 202-721-8250
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 635 amino acid residues
; TYPE: amino acid
; STRANDEDNESS: No. 6337201 relevant
; TOPOLOGY: No. 6337201 relevant
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Microorganism: Aspergillus niger ACE-2-1
; ORGANISM: (ATCC 20611)
; FEATURE:
; NAME/KEY: mat peptide
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; LOCATION: 1..635
; IDENTIFICATION METHOD: E
US-09-142-623-1

Query Match      55.2%; Score 37; DB 4; Length 635;
Best Local Similarity 77.8%; Pred. No. 92;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      6 PXOLSTLPN 14
       |||:|||||
Db      11 PTLNLTLPN 19

RESULT 7
US-09-228-986-72
; Sequence 72, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 72
; LENGTH: 910
; TYPE: PRT
; ORGANISM: Pinus radiata
US-09-228-986-72

Query Match      55.2%; Score 37; DB 4; Length 910;
Best Local Similarity 72.7%; Pred. No. 1,4e+02;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      5 IPXOLSTLPNL 15
       |||:|||||
Db      167 IPPOLCLPNL 177

RESULT 8
US-09-057-570-4
; Sequence 4, Application US/09057570
; Patent No. 6013266
; GENERAL INFORMATION:
; APPLICANT: Segers, Roud P.A.M.
; APPLICANT: Frey, Joachim
; TITLE OF INVENTION: Live attenuated Actinobacillus
; TITLE OF INVENTION: pleuropneumoniae
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Akzo No. 6013266 Patent Department
; STREET: 1300 Piccard Drive, Suite 206
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/057,570
; FILING DATE: 09-APR-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Gormley, Mary E.
; REGISTRATION NUMBER: 34,409
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 948-7400
; TELEFAX: (301) 948-9751
```


REGISTRATION NUMBER: 32,064
REFERENCE/DOCKET NUMBER: 19-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303)499-8080
TELEFAX: (303)499-8089
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-244-646-15

Query Match 52.2% Score 35; DB 1; Length 342;
Best Local Similarity 54.5%; Pred. No. 1e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 IPXQSTLPNL 15
:|:|||||
Db 170 LPPSISLPLN 180

RESULT 12
US-08-592-936B-21
Sequence 21, Application US/08592936B
Patent No. 5783393
GENERAL INFORMATION:
APPLICANT: Kellogg, Jill A.
TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR
TITLE OF INVENTION: REGULATED EXPRESSION OF TRANSGENES IN PLANTS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM PC compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592,936B
FILING DATE: 29-JAN-1996
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Evans, Susan T.
REGISTRATION NUMBER: 38,443
REFERENCE/DOCKET NUMBER: 4257-0012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Predicted amino acid coding sequence
INDIVIDUAL ISOLATE: of SEQ ID NO:20
US-08-592-936B-21

Query Match 52.2% Score 35; DB 1; Length 342;
Best Local Similarity 54.5%; Pred. No. 1e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 IPXQSTLPNL 15
:|:|||||

Db 170 LPPSISLPLN 180

RESULT 13
US-09-111-573-21
Sequence 21, Application US/09111573
Patent No. 5929302
GENERAL INFORMATION:
APPLICANT: Kellogg, Jill A.
TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR
TITLE OF INVENTION: REGULATED EXPRESSION OF TRANSGENES IN PLANTS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM PC compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,573
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/592,936
FILING DATE: 29-JAN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Evans, Susan T.
REGISTRATION NUMBER: 38,443
REFERENCE/DOCKET NUMBER: 4257-0012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Predicted amino acid coding sequence
INDIVIDUAL ISOLATE: of SEQ ID NO:20
US-09-111-573-21

Query Match 52.2% Score 35; DB 2; Length 342;
Best Local Similarity 54.5%; Pred. No. 1e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 5 IPXQSTLPNL 15
:|:|||||
Db 170 LPPSISLPLN 180

RESULT 14
US-08-399-986B-2
Sequence 2, Application US/08399986B
Patent No. 5801041
GENERAL INFORMATION:
APPLICANT: Godwin, Andrew K.
TITLE OF INVENTION: No.5801041e1 Gene Associated with Suppression
TITLE OF INVENTION: of Tumor Development
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dann, Dorfman, Herrell and Skillman
STREET: 1601 Market Street
CITY: Philadelphia

Search completed: July 16, 2003, 06:59:06
Job time : 3.94949 secs